

Up-date to the service manual Studer A816

UP-DATE Tape Deck Section 6

Main Transformer 300VA	1.816.520.81
Stabilizer	1.811.790.81
MP-Unit TD Control	1.816.785.24
Capstan Motor Drive Amplifier PCB	1.820.774.27
Tacho Sensor Electronics	1.021.695.86

UP-DATE Master Section 7

MP Unit Master	1.816.786.24
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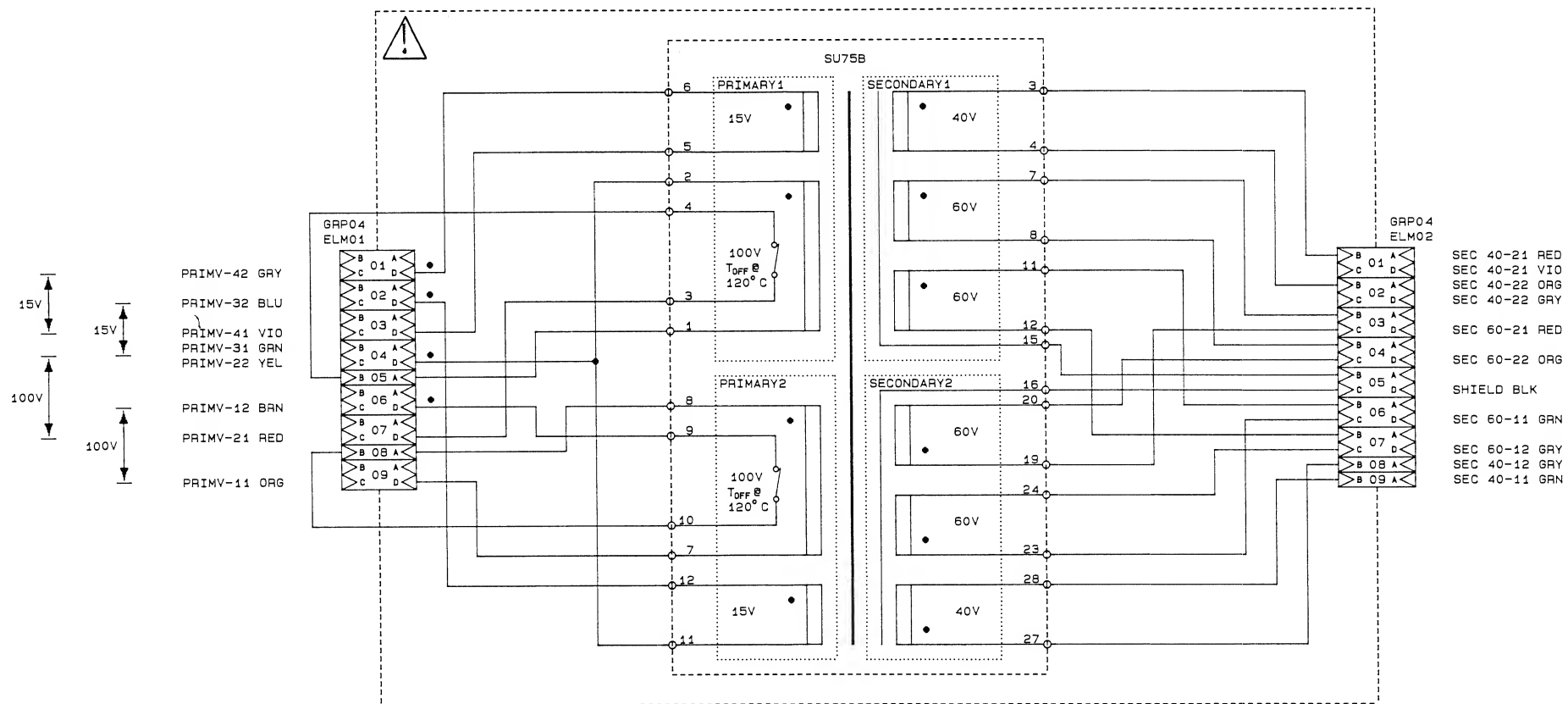
UP-DATE

Bandabhebeaggregat, Andruckmechanik	Seite 9/13
9.6 Andruckaggregat	Seite 9/14

UP-DATE Zubehör Section 10

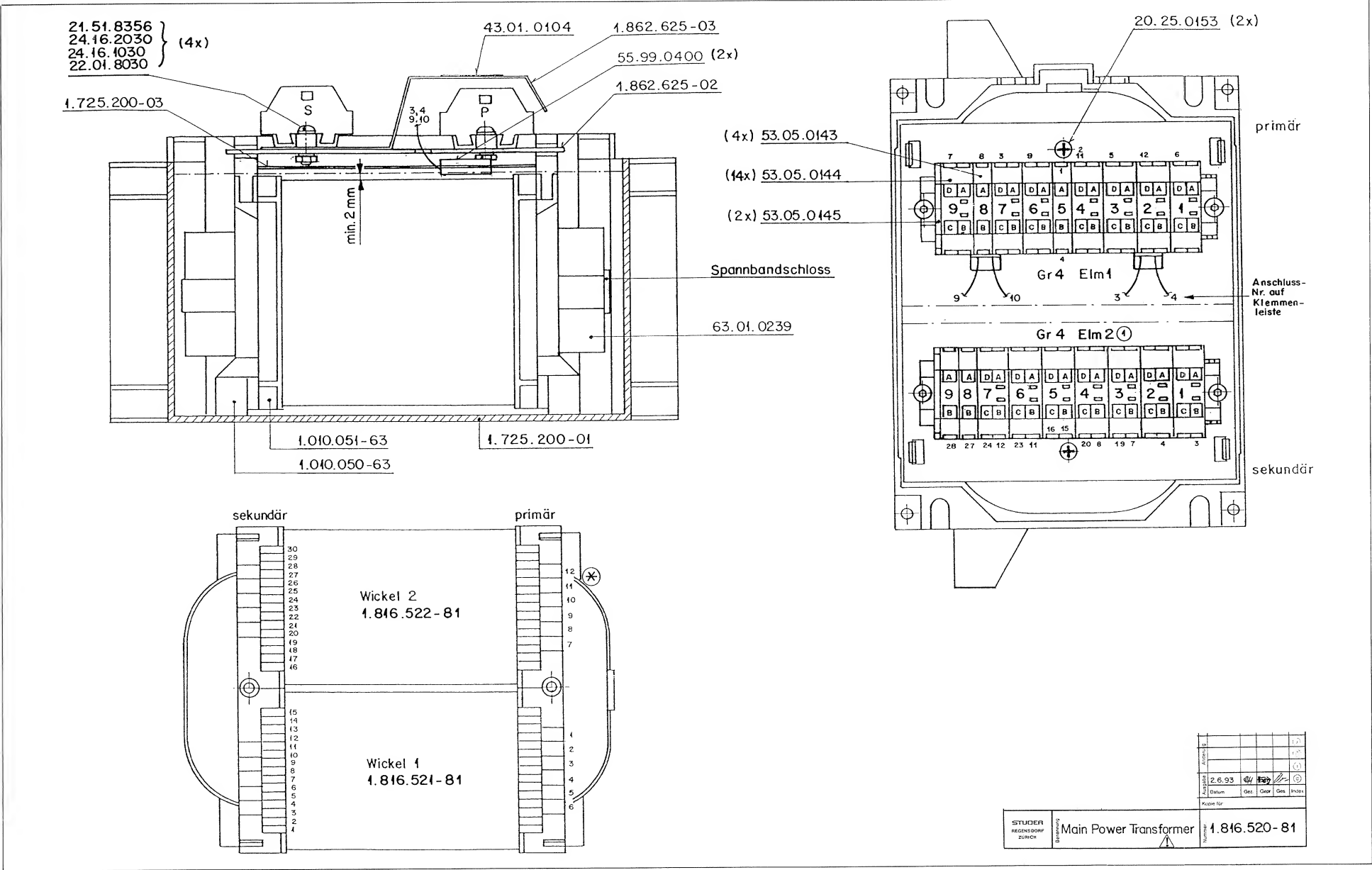
Tape Deck Remote Control Cabinet (Parallel)	1.328.250.81
- Tape Deck Remote Control PCB	1.328.251.81
Tape Deck Remote Control Module (Parallel)	1.328.255.81
- Connector PCB	1.328.257.81
Remote Timer/Lap Mode Display	1.328.270.00
- Stabilizer PCB	1.328.213.81
Remote Control Cabinet (Serial)	1.328.210.81
Remote Control Module (Serial)	1.328.220.81
- Stabilizer PCB	1.328.213.81
- Remote Control Driver PCB	1.328.211.25
Autolocator Module	1.328.230.82
Autolocator Cabinet	1.328.240.82
- Stabilizer Board	1.328.213.81

MAINS TRANSFORMER 300 VA 1.816.520.81

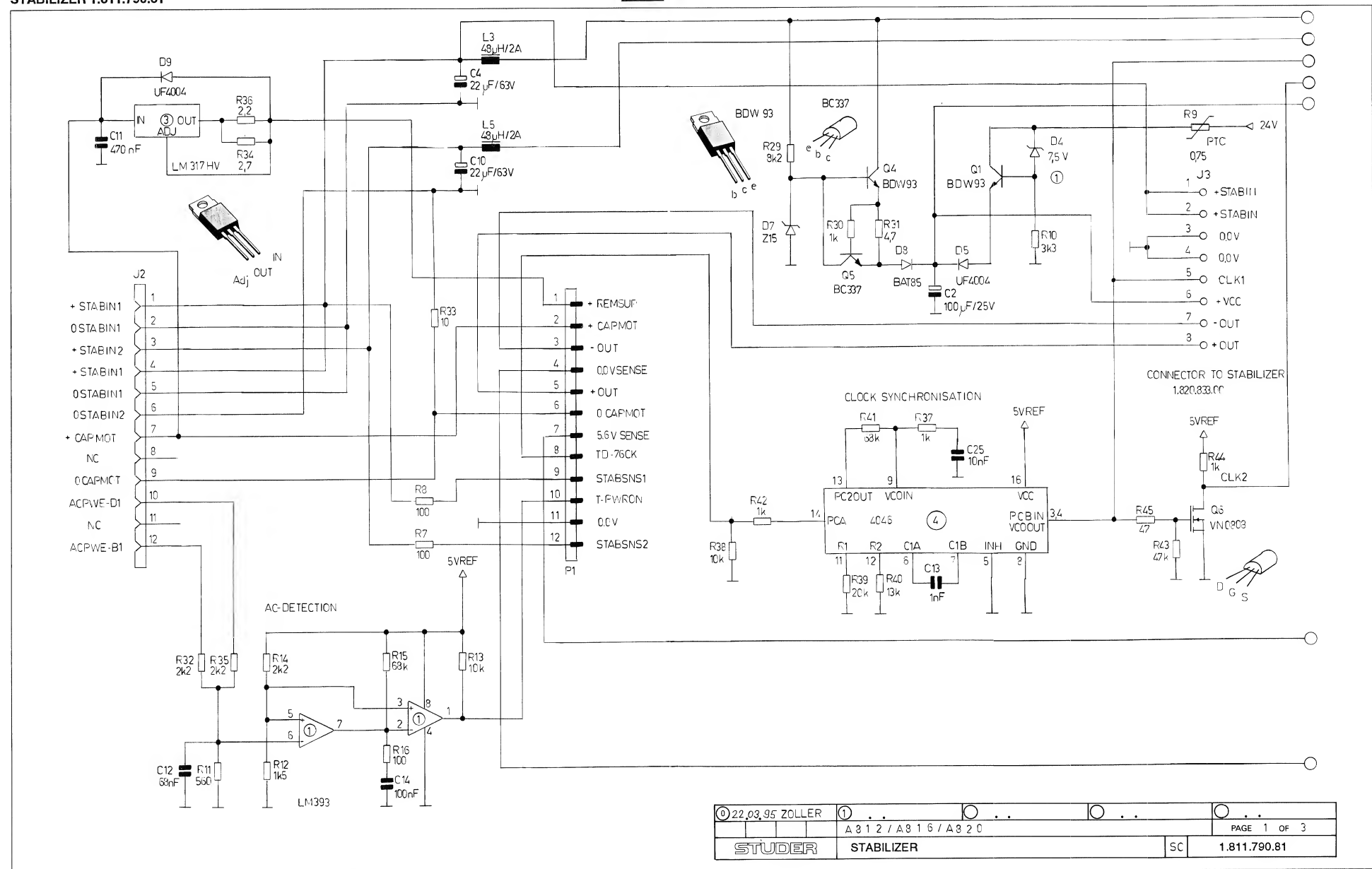


24.08.93	CHB				
A 816					
PAGE 1 OF 1					
STUDER		MAIN TRANSFORMER 300 VA		SC	1.816.520.81

MAINS TRANSFORMER 300 VA 1.816.520.81

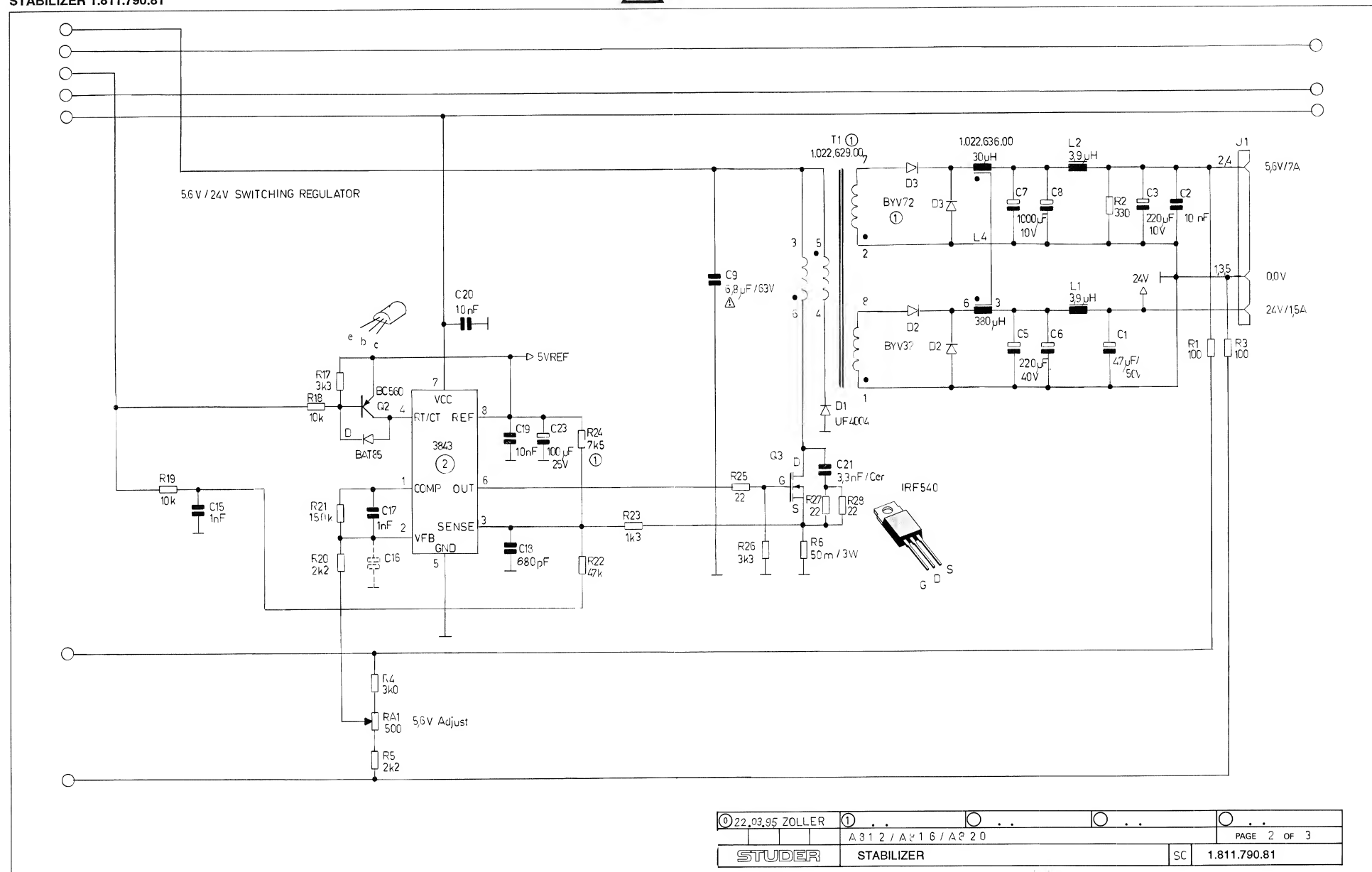


STABILIZER 1.811.790.81

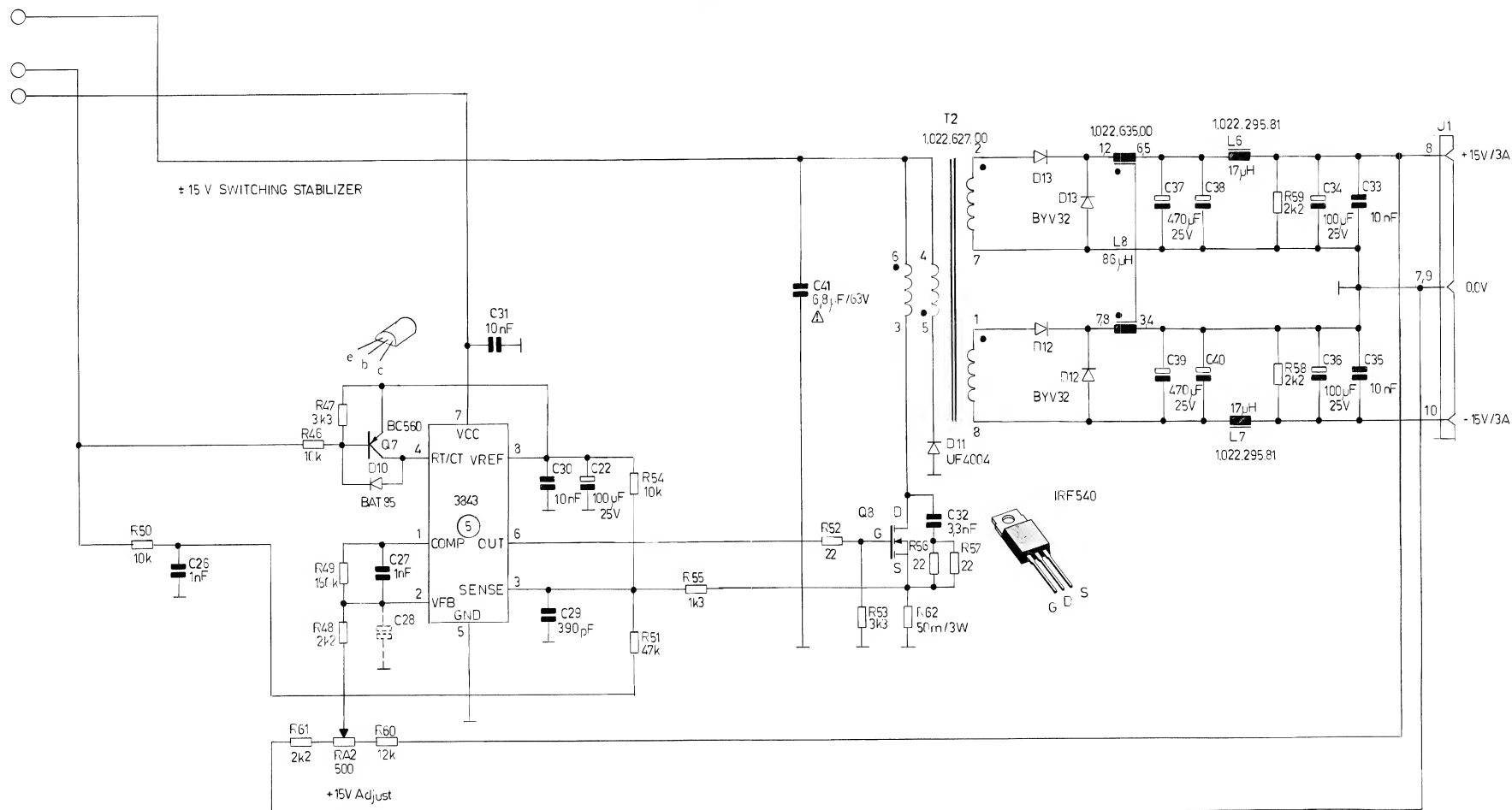




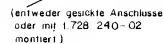
STABILIZER 1.811.790.81



STABILIZER 1.811.790.81



① 22.03.95 ZOLLER	①	①	①	PAGE 3 OF 3
STUDER	A812 / A816 / A820	STABILIZER	SC	1.811.790.81



L 3, L 5 nach
BV 640 montiert

C.....1	59.22.6470	47 uF	-20%,	40V, EL
C.....2	59.06.0103	10 nF	10%,	63V, PETP
C.....3	59.22.3221	220 uF	-20%,	10V, EL
C.....4	59.22.8220	22 uF	-20%,	63V, EL
C.....5	59.22.6221	220 uF	-20%,	40V, EL
C.....6	59.22.6221	220 uF	-20%,	40V, EL
C.....7	59.22.3102	1000 uF	-20%,	10V, EL
C.....8	59.22.3102	1000 uF	-20%,	10V, EL
C.....9	59.02.0685	6.8 uF	10%,	63V, MPC, /1/
C.....10	59.22.8220	22 uF	-20%,	63V, EL

C.....11	59.06.0474	470 nF	10%,	63V, PETP
C.....12	59.06.0683	68 nF	10%,	63V, PETP
C.....13	59.06.5102	50 nF	5%,	63V, PETP
C.....14	59.06.5104	100 nF	5%,	63V, PETP
C.....15	59.06.5102	1 nF	5%,	63V, PETP
C.....16	00.00.0000		not used	
C.....17	59.32.4102	1 nF	20%,	63V, CER
C.....18	59.32.1681	680 pF	10%,	400V, CER
C.....19	59.06.0103	10 nF	10%,	63V, PETP
C.....20	59.06.0103	10 nF	10%,	63V, PETP

C....21	59.06.0332	3.3 nF	10%,	63V, PETP
C....22	59.22.5101	100 uF	-20%,	25V, EL
C....23	59.22.5101	100 uF	-20%,	25V, EL
C....24	59.22.5101	100 uF	-20%,	25V, EL
C....25	59.06.0333	1 nF	10%,	63V, PETP
C....26	59.06.0102	1 nF	5%,	63V, PETP
C....27	59.32.4102	1 nF	20%,	63V, CER
C....28	00.00.0000		not used	
C....29	59.34.5391	390 pF	5%,	63V, CER
C....30	59.06.0103	10 nF	10%,	63V, PETP

C....31	59.06.0103	10 nF	10%,	63V,	PETP
C....32	59.06.0032	3.3 nF	10%,	63V,	PETP
C....33	59.06.0103	10 nF	10%,	63V,	PETP
C....34	59.22.5101	100 uF	-20%,	25V,	EL
C....35	59.06.0103	10 nF	10%,	63V,	PETP
C....36	59.22.5101	100 uF	-20%,	25V,	EL
C....37	59.22.5471	470 uF	-20%,	25V,	EL
C....38	59.22.5471	470 uF	-20%,	25V,	EL
C....39	59.22.5471	470 uF	-20%,	25V,	EL
C....40	59.22.5471	470 uF	-20%,	25V,	EL

C....41	59.02.0685	6.8 uF	10%, 63V, MPC, /1\
D....1	50.04.0138	UF 4004	BYT 01-400, UES 110
D....2	50.04.0517	BYV 32	
D....3	50.04.0522	BYV 72	BYW 99 P - 100
D....4	50.04.1103	Z 7.5 V	
D....5	50.04.0138	UF 4004	BYT 01-400, UES 110
D....6	50.04.0127	BAT 85	BAT 42
D....7	50.03.1119	Z 15 V	
D....8	50.04.0127	BAT 85	BAT 42
D....9	50.04.0138	UF 4004	BYT 01-400, UES 110
D....10	50.04.0127	BAT 85	BAT 42

D....11	50.04.0138	UF 4004	BYT 01-400, UES 110
D....12	50.04.0517	BYV 32	
D....13	50.04.0517	BYV 32	

IC....1	50.05.0283	LM 393 N	LM 393 P, LM 393 DP
IC....2	50.10.0113	IP3843 N	UC 3843 N
IC....3	50.10.0116	LM317HVT	
IC....4	50.07.0046	CD4046BE	HCF 4046 BE
IC....5	50.10.0113	IP3843 N	UC 3843 N

J....1	54.25.0010		see note 1
J....2	54.02.0409		see note 2
L....1	62.99.0111	3.9 uH	
L....2	62.99.0111	3.9 uH	
L....3	62.03.0010	48 uH	
L....4	1.022.636.00	30 uH	
L....5	62.03.0010	48 uH	
L....6	1.022.295.81	17 uH	
L....7	1.022.295.81	17 uH	
L....8	1.022.635.00	86 uH	

P.....1 54.02.0408 see note 3

Q.....1	50.03.0512	BDW 93 B	BD 899 A
Q.....2	50.03.0496	BC 560	
Q.....3	50.03.1609	IRF 540	
Q.....4	50.03.0512	BDW 93 B	BD 899 A
Q.....5	50.03.0340	BC 337-25	
Q.....6	50.03.1505	VN 0808 M	ZVN 0108 A
Q.....7	50.03.0496	BC 560	
Q.....8	50.03.1609	IRF 540	

R.....1	57.11.3101	100	Ohm	5%
R.....2	57.11.3331	330	Ohm	5%
R.....3	57.11.3101	100	Ohm	5%
R.....4	57.11.3302	3.0	kOhm	5%
R.....5	57.11.3222	2.2	kOhm	5%
R.....6	57.56.2050	50	mOhm	3%, 3W
R.....7	57.19.0101	100	Ohm	5%, Fuse
R.....8	57.19.0101	100	Ohm	5%, Fuse
R.....9	57.92.7013	0.75	Ohm	PTC
R.....10	57.11.3332	3.3	kOhm	5%

R....11	57.11.3561	560	Ohm	1%
R....12	57.11.3152	1.5	kOhm	1%
R....13	57.11.3103	10	kOhm	5%
R....14	57.11.3222	2.2	kOhm	1%
R....15	57.11.3683	68	kOhm	1%



STABILIZER 1.811.790.81

Ad	..POS..	...REF.No...	DESCRIPTION.....	MANUFACTURER
R....16	57.11.3101	100 Ohm	1%	
R....17	57.11.3332	3.3 kOhm	5%	
R....18	57.11.3103	10 kOhm	5%	
R....19	57.11.3103	10 kOhm	1%	
R....20	57.11.3222	2.2 kOhm	5%	
R....21	57.11.3154	150 kOhm	5%	
R....22	57.11.3473	47 kOhm	1%	
R....23	57.11.3132	1.3 kOhm	1%	
R....24	57.11.3752	7.5 kOhm	1%	
R....25	57.11.3220	22 Ohm	5%	
R....26	57.11.3332	3.3 kOhm	5%	
R....27	57.11.3220	22 Ohm	5%	
R....28	57.11.3220	22 Ohm	5%	
R....29	57.11.3822	8.2 kOhm	5%	
R....30	57.11.3102	1 kOhm	5%	
R....31	57.11.3479	4.7 Ohm	5%	
R....32	57.11.3222	2.2 kOhm	1%	
R....33	57.11.3100	10 Ohm	5%	
R....34	57.11.3279	2.7 Ohm	5%	
R....35	57.11.3222	2.2 kOhm	1%	
R....36	57.11.3229	2.2 Ohm	5%	
R....37	57.11.3102	1 kOhm	1%	
R....38	57.11.3103	10 kOhm	5%	
R....39	57.11.3203	20 kOhm	1%	
R....40	57.11.3133	13 kOhm	1%	
R....41	57.11.3683	68 kOhm	5%	
R....42	57.11.3102	1 kOhm	5%	
R....43	57.11.3473	47 kOhm	5%	
R....44	57.11.3102	1 kOhm	5%	
R....45	57.11.3470	47 Ohm	5%	
R....46	57.11.3103	10 kOhm	5%	
R....47	57.11.3332	3.3 kOhm	5%	
R....48	57.11.3222	2.2 kOhm	5%	
R....49	57.11.3154	150 kOhm	5%	
R....50	57.11.3103	10 kOhm	1%	
R....51	57.11.3473	47 kOhm	1%	
R....52	57.11.3220	22 Ohm	5%	
R....53	57.11.3332	3.3 kOhm	5%	
R....54	57.11.3103	10 kOhm	1%	
R....55	57.11.3132	1.3 kOhm	1%	
R....56	57.11.3220	22 Ohm	5%	
R....57	57.11.3220	22 Ohm	5%	
R....58	57.11.3222	2.2 kOhm	5%	
R....59	57.11.3222	2.2 kOhm	5%	
R....60	57.11.3123	12 kOhm	5%	
R....61	57.11.3222	2.2 kOhm	5%	
R....62	57.56.2050	50 mOhm	3%, 3W	
RA....1	58.05.1501	500 Ohm	10%, multi turn	
RA....2	58.05.1501	500 Ohm	10%, multi turn	
T....1	1.022.629.00		Switching Transformer	St
T....2	1.022.627.00		Switching Transformer	St
TP....1	54.02.0320		Test Point	

/I\ = Increasing of safety relative to risk of fire.

Note 1 - Connector:
10 contacts, AMP Nr. 826 852-3

Note 2 - Connector:
case, Studer Nr. 54.02.0409
Molex Nr. 03-06-1121
12 contacts, Studer Nr. 54.02.0407
Molex Nr. 02-06-7103

Note 3 - Connector:
case, Studer Nr. 54.02.0408
Molex Nr. 03-06-2121
12 contacts, Studer Nr. 54.02.0406
Molex Nr. 02-06-8103

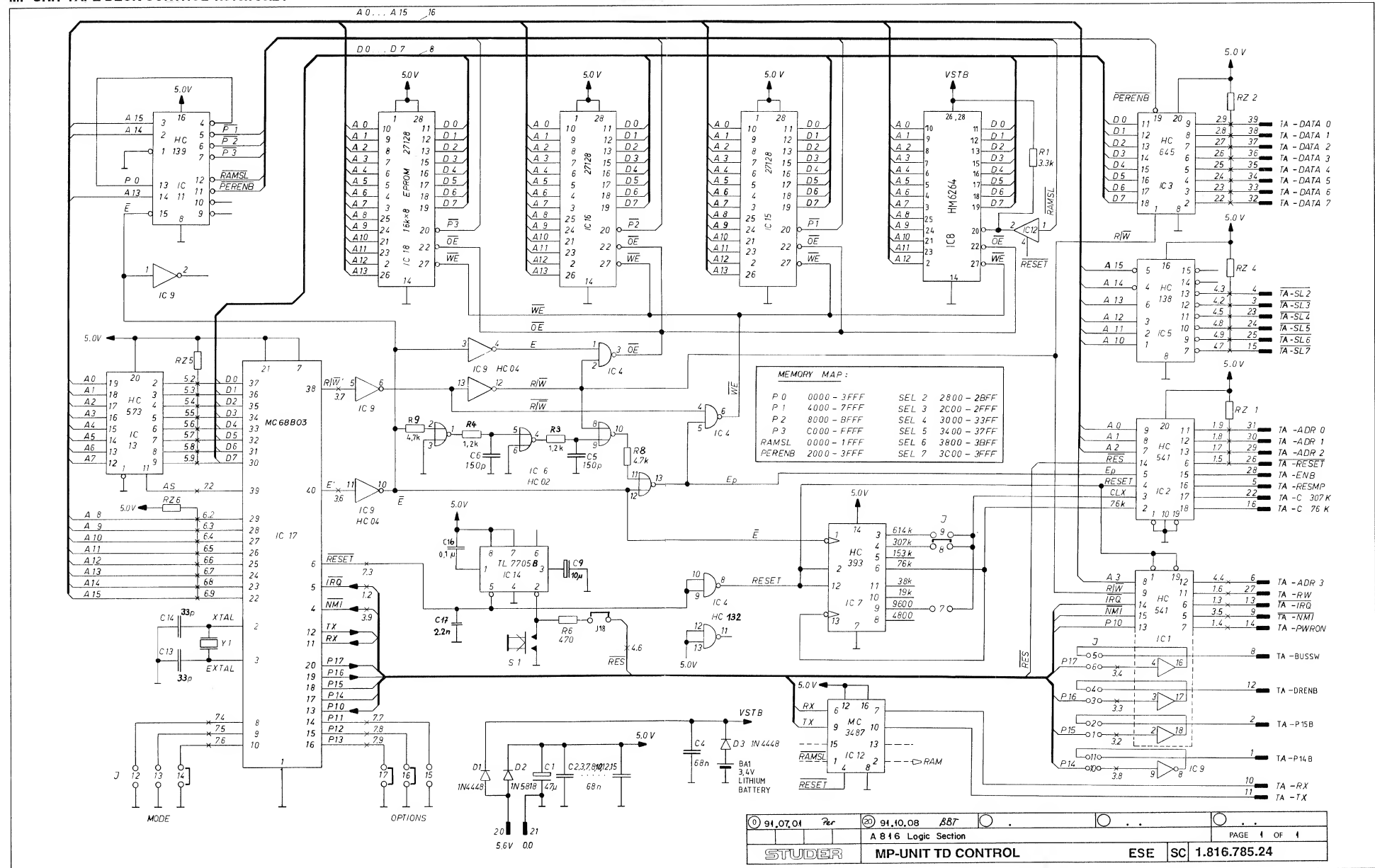
Ce=Ceramic, El=Electrolytic, MPETP=Metallized Polyesterfilm, PETP=Polyesterfilm,
MPC=Metallized Polycarbonate film.

MANUFACTURER: Fe=Ferranti, GI=General Instruments, IPS=Integrated Power
Semiconductor, ITT=Intermetall, IR=International Rectifier,
Mot=Motorola, NS=National Semiconductors, Ph=Philips,
RCA=RCA Corporation, Ses=Sesosem, SGS=SGS/Ates, SG=Silicon
General, Sie=Siemens, Sig=Signetics, Six=Siliconix,
St=Studer, Tf=Telefunken, Tho=Thomson, Ti=Texas Instruments,
Un=Unitrode, Vo=Vogt & Co.

1.811.790.81 STABILIZER

GP 95/03/2200

MP-UNIT TAPE DECK CONTROL 1.816.785.24



MP-UNIT TAPE DECK CONTROL 1.816.785.24

Bestückungsseite

MP-UNIT TD CONTROL

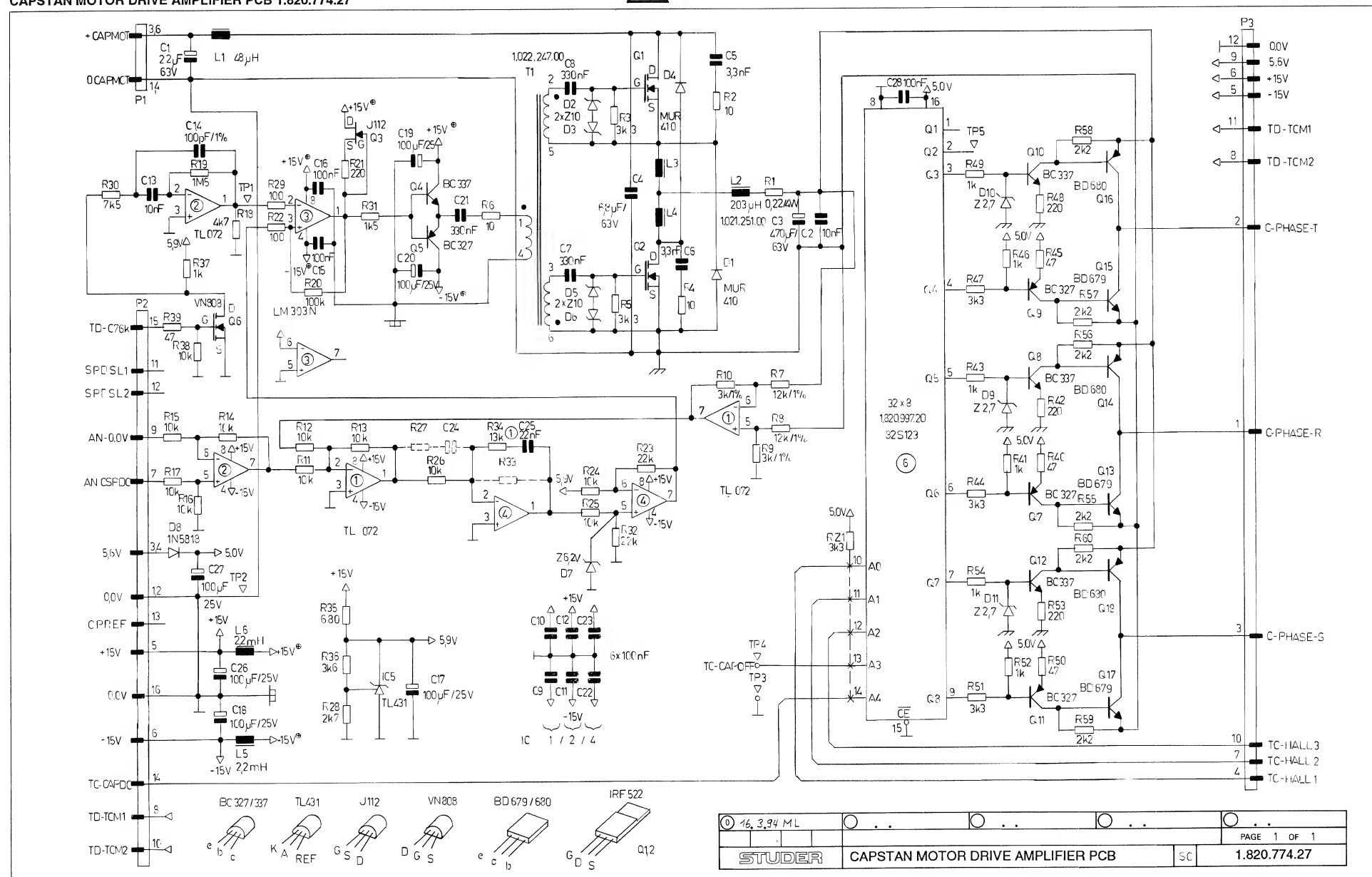
1.816.785.24

Ad	..POS..	..REF.No..	DESCRIPTION	MANUFACTURER
C....1	59.26.0470	47 uF	20%, 6.3V, Sal	Ph
C....2	59.06.0683	68 nF	10%, 63V, PETP	
C....3	59.06.0683	68 nF	10%, 63V, PETP	
C....4	59.06.0683	68 nF	10%, 63V, PETP	
C....5	59.34.7151	150 pF	2%, Ce	
C....6	59.34.7151	150 pF	2%, Ce	
C....7	59.06.0683	68 nF	10%, 63V, PETP	
C....8	59.06.0683	68 nF	10%, 63V, PETP	
C....9	59.26.2100	10 uF	20%, 16V, Sal	
C....10	59.06.0683	68 nF	10%, 63V, PETP	
C....11	00.00.0000	not used		
C....12	59.06.0683	68 nF	10%, 63V, PETP	
C....13	59.34.2330	33 pF	5%, Ce	
C....14	59.34.2330	33 pF	5%, Ce	
C....15	59.06.0683	68 nF	10%, 63V, PETP	
C....16	59.06.0683	68 nF	10%, 63V, PETP	
C....17	59.06.0104	100 nF	10%, 63V, PETP	
C....18	59.06.0222	2.2 nF	10%, 63V, PETP	
D....1	50.04.0125	1N 4448	Fc,ITT,Ph,Ses,Tf	
D....2	50.04.0512	1N 5819	Fc,ITT,Ph,Ses,Tf	
D....3	50.04.0125	1N 4448		
IC....1	50.17.1541	74 HC 541	Not,NS,Ph,RCA,SGS,TI,To	
IC....2	50.17.1541	74 HC 541	Not,NS,Ph,RCA,SGS,TI,To	
IC....3	50.17.1645	74 HC 645	Not,NS,Ph,RCA,SGS,TI,To	
IC....4	50.17.1332	74 HC 132	Not,NS,Ph,RCA,SGS,TI,To	
IC....5	50.17.1332	74 HC 132	Not,NS,Ph,RCA,SGS,TI,To	
IC....6	50.17.1002	74 HC 02	Not,NS,Ph,RCA,SGS,TI,To	
IC....7	50.17.1393	74 HC 139	Not,NS,Ph,RCA,SGS,TI,To	
IC....8	00.00.0000	not used		
IC....9	50.17.0004	74 HCT 04	Not,NS,Ph,RCA,SGS,TI,To	
IC....10	50.14.0107	HM6116LP-4	NSM 5128-15	Hi,OKI
IC....11	50.17.1139	74 HC 139	Not,NS,Ph,RCA,SGS,TI,To	
IC....12	50.15.0105	MC 3487 P	DS 3487 N	Not,NS
IC....13	50.17.1573	74 HC 573	Not,NS,Ph,RCA,SGS,TI,To	TI
IC....14	50.11.0157	TL77058CP		
IC....15	00.00.0000	not used		
IC....16	50.14.0125	27128	HN 4827128G-30	Hi,It
20 IC....16	1.816.995.20	27128	Software 45/91, see note 1	
21 IC....16	1.816.995.21	27128	Software 10/92, see note 1	
22 IC....16	1.816.995.22	27128	Software 18/93, see note 1	
23 IC....16	1.816.995.23	27128	Software 28/94, see note 1	
IC....17	50.16.0107	MC6803P-1	6803P-1	Not,Hi
IC....18	50.14.0125	27128	HN 4827128G-30	Hi,It
20 IC....18	1.816.995.20	27128	Software 45/91, see note 1	
21 IC....18	1.816.995.21	27128	Software 10/92, see note 1	
22 IC....18	1.816.995.22	27128	Software 18/93, see note 1	
23 IC....18	1.816.995.23	27128	Software 28/94, see note 1	
JS....1			see note 2	
JS....2			see note 2	
JS....3			see note 2	
JS....4			see note 2	
JS....5			see note 2	
JS....6			see note 2	
JS....7			see note 2	
JS....8			see note 2	
JS....9			see note 2	
JS....10			see note 2	
JS....11			see note 2	
JS....12			see note 2	
JS....13			see note 2	
JS....14			see note 2	
JS....15			see note 2	
JS....16			see note 2	
JS....17			see note 2	
JS....18			see note 2	
R....1	57.11.3332	3.3 kOhm	5%	
R....2	00.00.0000	not used		
R....3	57.11.3122	1.2 kOhm	5%	
R....4	57.11.3122	1.2 kOhm	5%	
R....5	00.00.0000	not used		
R....6	57.11.3471	470 Ohm	5%	
R....7	00.00.0000	not used		
R....8	57.11.3472	4.7 kOhm	5%	
R....9	57.11.3472	4.7 kOhm	5%	
RZ....1	57.88.4332		see note 3	
RZ....2	57.88.4332		see note 3	
RZ....3	57.88.4332		see note 3	
RZ....4	57.88.4332		see note 3	
RZ....5	57.88.4332		see note 3	
RZ....6	57.88.4332		see note 3	
RZ....7	57.88.4332		see note 3	
S....1	55.03.0122	Chicago Switch	34-550-001	
Y....1	89.01.0560	4.9152 MHz, +100 ppm		

(20) 91/10/08 Software 45/91
(21) 92/03/09 Software 10/92 (RBT Confirmed)
(22) 93/05/05 Software 18/93 (ARD Confirmed)
(23) 94/15/07 Software 28/94 (ARD Confirmed)

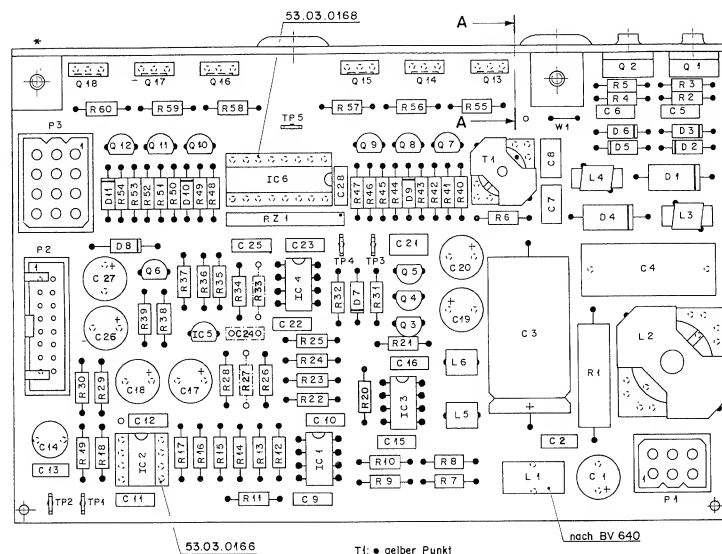
Note 1 - IC 16/18: Software in set available only.
Note 2 - Contact pin: Studer Nr. 54.01.0020
Berg Nr. 75 160-102-36

CAPSTAN MOTOR DRIVE AMPLIFIER PCB 1.820.774.27

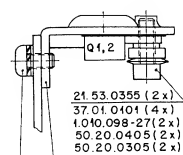




CAPSTAN MOTOR DRIVE AMPLIFIER PCB 1.820.774.27



Ansicht A - A



1.820.774-14

Pos.	Ref.	Value	Unit	Notes
1	3.94	0.4	Ω	
2	3.94	0.4	Ω	
3	3.94	0.4	Ω	
4	3.94	0.4	Ω	
5	3.94	0.4	Ω	
6	3.94	0.4	Ω	
7	3.94	0.4	Ω	
8	3.94	0.4	Ω	
9	3.94	0.4	Ω	
10	3.94	0.4	Ω	

STUDER	CAPSTAN MOTOR DRIVE AMPL. ESE
1.820.774-27	

Ad ..POS... ..REF.No... DESCRIPTION.....MANUFACTURER

C....1	59.22.8220	22 uF	-20%, 63V, EL	
C....2	59.06.0103	10 nF	10%, 63V, PETP	
C....3	59.25.6471	470 uF	-20%, 63V, EL	
C....4	59.02.0685	6.8 uF	5%, 63V, NTC.....	
C....5	59.06.0332	3.3 nF	10%, 63V, PETP	
C....6	59.06.0332	3.3 nF	10%, 63V, PETP	
C....7	59.06.0334	330 nF	10%, 63V, PETP	
C....8	59.06.0334	330 nF	10%, 63V, PETP	
C....9	59.06.0104	100 nF	10%, 63V, PETP	
C....10	59.06.0104	100 nF	10%, 63V, PETP	

C....11	59.06.0104	100 nF	10%, 63V, PETP	
C....12	59.06.0104	100 nF	10%, 63V, PETP	
C....13	59.06.0102	10 nF	10%, 63V, PETP	
C....14	59.05.1101	100 pF	1%, 63V, PP	
C....15	59.06.0104	100 nF	10%, 63V, PETP	
C....16	59.06.0104	100 nF	10%, 63V, PETP	
C....17	59.22.5101	100 uF	-20%, 25V, EL	
C....18	59.22.5101	100 uF	-20%, 25V, EL	
C....19	59.22.5101	100 uF	-20%, 25V, EL	
C....20	59.22.5101	100 uF	-20%, 25V, EL	

C....21	59.06.0334	330 nF	10%, 63V, PETP	
C....22	59.06.0104	100 nF	10%, 63V, PETP	
C....23	59.06.0104	100 nF	10%, 63V, PETP	
C....24	00.00.0000	100 nF	not used	
C....25	59.06.0223	22 nF	10%, 63V, PETP	
C....26	59.22.5101	100 uF	-20%, 25V, EL	
C....27	59.22.5101	100 uF	-20%, 25V, EL	
C....28	59.06.0104	100 nF	10%, 63V, PETP	

D....1	50.04.0521	MUR 410		
D....2	50.04.1216	Z 10 V	5%, 1.3W	ITT, Mot, Ph, T, SCS
D....3	50.04.1216	Z 10 V	5%, 1.3W	ITT, Mot, Ph, T, SCS
D....4	50.04.0521	MUR 410		
D....5	50.04.1216	Z 10 V	5%, 1.3W	ITT, Mot, Ph, T, SCS
D....6	50.04.1216	Z 10 V	5%, 1.3W	ITT, Mot, Ph, T, SCS
D....7	50.04.1116	Z 6.3 V	5%, 1.3W	ITT, Mot, Ph, T, SCS
D....8	50.04.0512	1N 5819		
D....9	50.04.1106	Z 2.7 V	5%, .40W	ITT, Mot, Ph, T, SCS
D....10	50.04.1106	Z 2.7 V	5%, .40W	ITT, Mot, Ph, T, SCS

D....11	50.04.1106	Z 2.7 V	5%, .40W	ITT, Mot, Ph, T, SCS
IC....1	50.09.0101	TL 072 CP		
IC....2	50.09.0101	TL 072 CP		
IC....3	50.05.0283	LM 393 ..		
IC....4	50.09.0101	TL 072 CP		
IC....5	50.10.0106	TL 431CLP		
IC....6	1.820.997.20			

L....1	62.03.0010	48 uH		
L....2	1.022.251.00	203 uH		
L....3	62.99.0113	1.0 uH		
L....4	62.99.0113	1.0 uH		
L....5	62.02.3222	2.2 mH	10%, Rad, RM 5	
L....6	62.02.3222	2.2 mH	10%, Rad, RM 5	

P....1	54.02.0418	Connector	6 contacts, MOLEX, see note 2	
P....2	54.14.2102	Connector	16 contacts, latch, flat cable	
P....3	54.02.0408	Connector	12 contacts, MOLEX, see note 1	

Q....1	50.03.1502	1R7 522	MTP 8M10	IR, Mot
Q....2	50.03.1502	1R7 522	MTP 8M10	IR, Mot
Q....3	50.03.0350	J-112		
Q....4	50.03.0340	BC 327-25		ITT, Ph, Sie
Q....5	50.03.0351	BC 327-25		ITT, Ph, Sie
Q....6	50.03.1505	VN 8088 M	ZVN 0108 A	Fe, Six
Q....7	50.03.0351	BC 327-25		ITT, Ph, Sie
Q....8	50.03.0340	BC 327-25		ITT, Ph, Sie
Q....9	50.03.0351	BC 327-25		ITT, Ph, Sie
Q....10	50.03.0340	BC 327-25		ITT, Ph, Sie

Q....11	50.03.0351	BC 327-25		ITT, Ph, Sie
Q....12	50.03.0340	BC 327-25		ITT, Ph, Sie
Q....13	50.03.0749	80 679	see note 3	Ph
Q....14	50.03.0799	80 680	see note 3	Ph
Q....15	50.03.0749	80 679	see note 3	Ph
Q....16	50.03.0799	80 680	see note 3	Ph
Q....17	50.03.0749	80 679	see note 3	Ph
Q....18	50.03.0799	80 680	see note 3	Ph

R....1	57.56.5228	0.22 Ohm	10%, 4 W, WW	
R....2	57.11.3100	10 Ohm	10%	
R....3	57.11.3100	10 Ohm	10%	
R....4	57.11.3100	10 Ohm	10%	
R....5	57.11.3332	3.3 kOhm	10%	
R....6	57.11.3100	10 Ohm	10%	
R....7	57.11.3100	10 Ohm	10%	
R....8	57.11.3100	10 Ohm	10%	
R....9	57.11.3302	3 kOhm	1%	
R....10	57.11.3302	3 kOhm	1%	

R....11	57.11.3103	10 kOhm	10%	
R....12	57.11.3103	10 kOhm	10%	
R....13	57.11.3103	10 kOhm	10%	
R....14	57.11.3103	10 kOhm	10%	
R....15	57.11.3103	10 kOhm	10%	
R....16	57.11.3103	10 kOhm	10%	
R....17	57.11.3103	10 kOhm	10%	
R....18	57.11.3472	4.7 kOhm	10%	
R....19	57.11.5155	1.5 MOhm	10%	
R....20	57.11.3104	100 kOhm	10%	

R....21	57.11.3221	220 Ohm	10%	
R....22	57.11.3101	100 Ohm	10%	

Ad ..POS... ..REF.No... DESCRIPTION.....MANUFACTURER

R....23	57.11.3223	22 kOhm	10%	
R....24	57.11.3103	10 kOhm	10%	
R....25	57.11.3103	10 kOhm	10%	
R....26	57.11.3103	10 kOhm	10%	
R....27	00.00.0000	not used		
R....28	57.11.3272	2.7 kOhm	1%	
R....29	57.11.3101	100 Ohm	10%	
R....30	57.11.3752	7.5 kOhm	1%	

R....31	57.11.3152	1.5 kOhm	10%	
R....32	57.11.3223	22 kOhm	10%	
R....33	00.00.0000	not used		
R....34	57.11.3113	13 kOhm	1%	
R....35	57.11.3681	680 Ohm	10%	
R....36	57.11.3362	3.6 kOhm	1%	
R....37	57.11.3102	1 kOhm	10%	
R....38	57.11.3103	10 kOhm	10%	
R....39	57.11.3470	47 Ohm	10%	
R....40	57.11.3470	47 Ohm	10%	

R....41	57.11.3102	1 kOhm	10%	
R....42	57.11.3221	220 Ohm	10%	
R....43	57.11.3102	1 kOhm	10%	
R....44	57.11.3332	3.3 kOhm	10%	
R....45	57.11.3470	47 Ohm	10%	
R....46	57.11.3102	1 kOhm	10%	
R....47	57.11.3332	3.3 kOhm	10%	
R....48	57.11.3221	220 Ohm	10%	
R....49	57.11.3102	1 kOhm	10%	
R....50	57.11.3470	47 Ohm	10%	

R....51	57.11.3332	3.3 kOhm	10%	
R....52	57.11.3102	1 kOhm	10%	
R....53	57.11.3221	220 Ohm	10%	
R....54	57.11.3102	1 kOhm	10%	
R....55	57.11.3222	2.2 kOhm	10%	
R....56	57.11.3222	2.2 kOhm	10%	
R....57	57.11.3222	2.2 kOhm	10%	
R....58	57.11.3222	2.2 kOhm	10%	
R....59	57.11.3222	2.2 kOhm	10%	
R....60	57.11.3222	2.2 kOhm	10%	

RZ....1	57.88.4332	Network	8 * 3.3 kOhm, 2%, SIP 9	
T....1	1.022.247.00		Drive Transformer	St
TP....1	54.02.0320	Connector	1 contact, 2.8*0.8, flat	
TP....2	54.02.0320	Connector	1 contact, 2.8*0.8, flat	
TP....3	54.02.0320	Connector	1 contact, 2.8*0.8, flat	
TP....4	54.02.0320	Connector	1 contact, 2.8*0.8, flat	
TP....5	54.02.0320	Connector	1 contact, 2.8*0.8, flat	

W....1	1.010.321.64		Wire bridge	
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Note 1 - Connector:	Case:	Studer Nr.	54.02.0418	
	Contact pin:	Molex Nr.	03-06-2121	
		Studer Nr.	54.02.0406	
		Molex Nr.	02-06-8103	

Note 2 - Connector:	Case:	Studer Nr.	54.02.0418	
	Contact pin:	Molex Nr.	03-06-2061	
		Studer Nr.	54.02.0406	
		Molex Nr.	02-06-8103	

Note 3 - For excellent wow and flutter values at 3.75 ips the NPN -				
respective the PNP - Transistors should be from the same				
type and manufacturer.				

Ce=Ceramic, El=Electrolytic, PETP=Polyester film, PP=Polypropylen

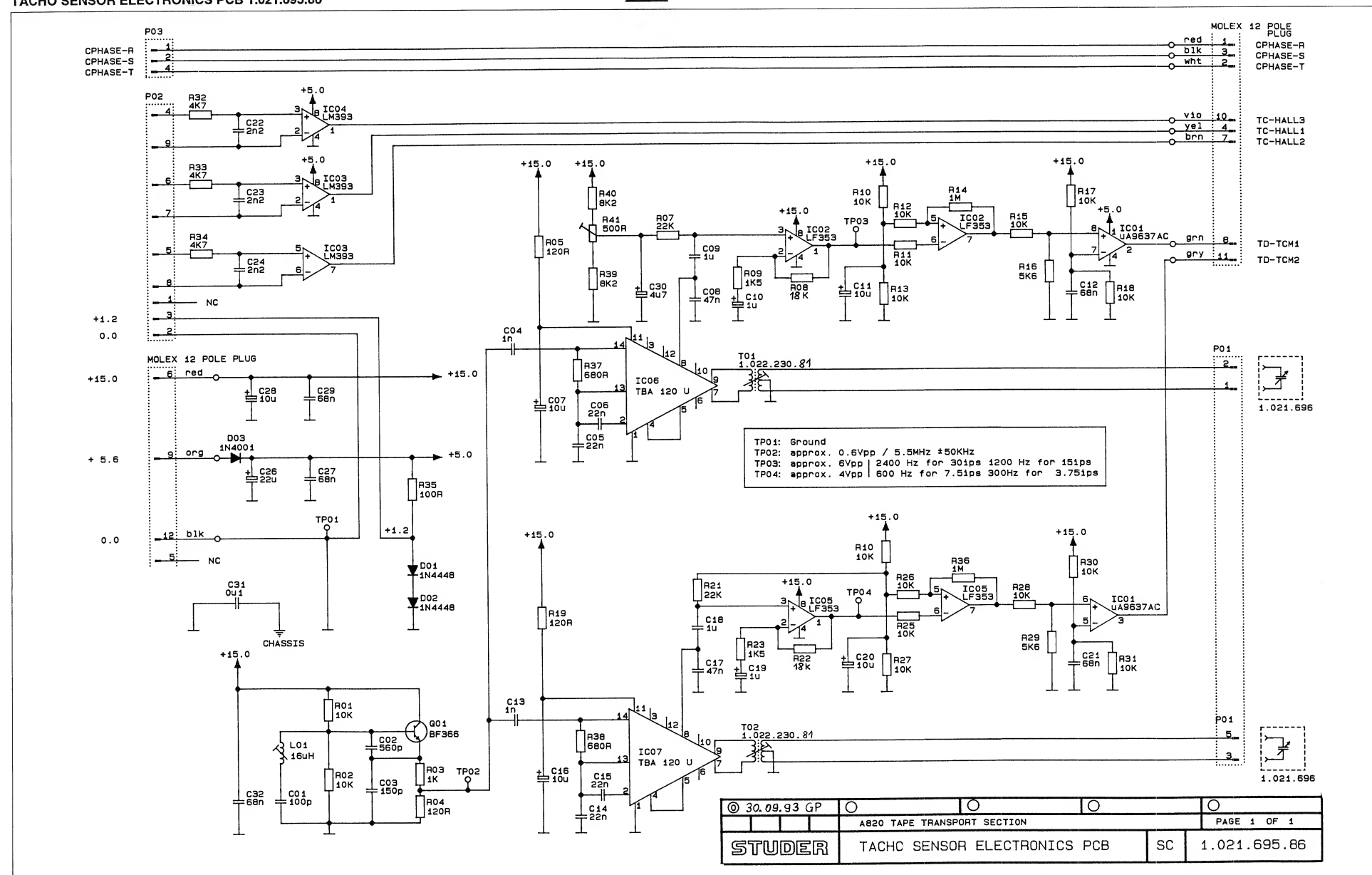
MANUFACTURER: Ex=Exar, Fe=ferranti, GI=General Instruments, ITT=Intermetal, IPS=Integrated Power Semiconductors Ltd., MWI=Monolithic Memory Inc., Mot=Motorola, NS=National Semiconductor, Ph=Philips, Ra-Raytheon, RCA=Radio Corporation of America, Sie=Siemens, Sig=Signetics, Ses=Secossem, Six=Siliconix, SGS=SGS-Ates, St=Studer, Tfe=Telefunken, Tif=Texas Instruments, To= Toshiba.

1.820.774.27 CAP. MOT. DRIVE AMP. BOARD ML 94/02/2400

END

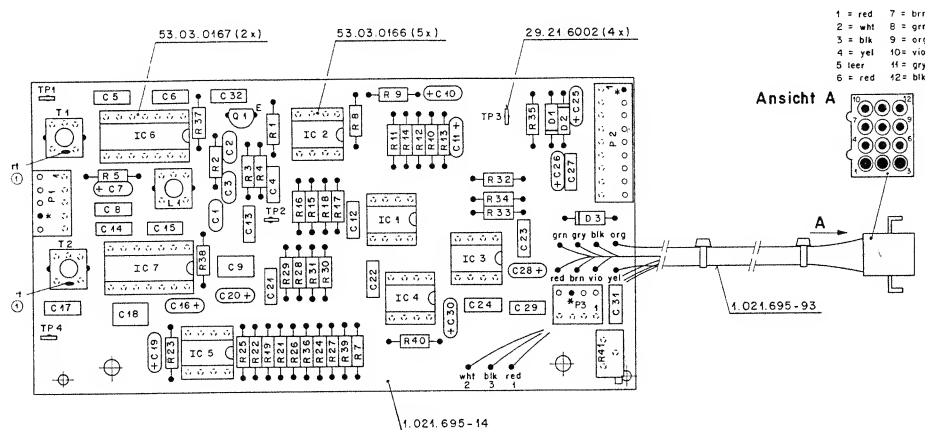
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TACHO SENSOR ELECTRONICS PCB 1.021.695.86





TACHO SENSOR ELECTRONICS PCB 1.021.695.86



Änderung					(3)
					(2)
	10.7.96	<i>Po</i>	<i>Po</i>		(1)
Ausgabe	30.9.93	<i>EM</i>	<i>FSM</i>	<i>FSM</i>	(0)
	Datum	Gez	Gezr	Gez	Inde.

STUDER REGENSDORF ZÜRICH	Bezeichnung TACHO SENSOR EL. BOARD ESE	Nummer 1.021.695 - 86
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Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	59.34 4101	100p	CER 63V, 5%, N750	
0	C 2	59.34 5561	60p	CER 63V, 5%, N1500	
0	C 3	59.34 4151	150p	CER 63V, 5%, N750	
0	C 4	59.06 0102	10n	PETP, 63V, 10%, RM5	
0	C 5	59.06 0223	22n	PETP, 63V, 10%, RM5	
0	C 6	59.06 0223	22n	PETP, 63V, 10%, RM5	
0	C 7	59.26 2100	10u	SAL, 20%, 16V	
0	C 8	59.06 0473	47n	PETP, 63V, 10%, RM5	
0	C 9	59.06 0105	10u	PETP, 60V, 10%, RM5	
0	C 10	59.26 9109	1u	SAL, 20%, 40V	
0	C 11	59.26 2100	10u	SAL, 20%, 16V	
0	C 12	59.06 0583	68n	PETP, 63V, 10%, RM5	
0	C 13	59.06 0102	10n	PETP, 63V, 10%, RM5	
0	C 14	59.06 0223	22n	PETP, 63V, 10%, RM5	
0	C 15	59.06 0223	22n	PETP, 63V, 10%, RM5	
0	C 16	59.26 2100	10u	SAL, 20%, 16V	
0	C 17	59.06 0473	47n	PETP, 63V, 10%, RM5	
0	C 18	59.06 0105	10u	PETP, 60V, 10%, RM5	
0	C 19	59.26 9109	1u	SAL, 20%, 40V	
0	C 20	59.26 2100	10u	SAL, 20%, 16V	
0	C 21	59.06 0683	68n	PETP, 63V, 10%, RM5	
0	C 22	59.06 0222	2n2	PETP, 63V, 10%, RM5	
0	C 23	59.06 0222	2n2	PETP, 63V, 10%, RM5	
0	C 24	59.06 0222	2n2	PETP, 63V, 10%, RM5	
0	C 25	59.26 1220	22u	SAL, 20%, 10V	
0	C 26	59.26 1220	22u	SAL, 20%, 10V	
0	C 27	59.06 0683	68n	PETP, 63V, 10%, RM5	
0	C 28	59.26 2100	10u	SAL, 20%, 16V	
0	C 29	59.06 0683	68n	PETP, 63V, 10%, RM5	
0	C 30	59.26 1479	4u7	SAL, 20%, 10V	
0	C 31	59.06 0104	100n	PETP, 63V, 10%, RM5	
0	C 32	59.06 0683	68n	PETP, 63V, 10%, RM5	
0	D 1	50.04 0125	1N4448	75V, 150mA, 4ns, DO-35	
0	D 2	50.04 0125	1N4448	75V, 150mA, 4ns, DO-35	
0	D 3	50.04 0122	1N4001	1A, DO 41	
0	IC 1	50.15 0114	9537	Dual d/f Line Receiver	
0	IC 2	50.09 0101	TL072	IC TL 072 CN	A
0	IC 3	50.05 0283	LM393	Dual Comparator	
0	IC 4	50.05 0283	LM393	Dual Comparator	
0	IC 5	50.09 0101	TL072	IC TL 072 CN	A
0	IC 6	50.11 0151	TBA120U	IC TBA 120 U/V5	
0	IC 7	50.11 0151	TBA120U	IC TBA 120 U/V5	
0	L 1	1 022 222.00	L16mH	HF-DROSSEL 16 MH	
0	P 1	54.01 0288	5-P	J LEISTE 5 POL C15 AUFS	
0	P 2	54.01 0217	9-P	J LEISTE 9 POL C15 AUFS	
0	P 3	54.01 0241	4-P	J LEISTE 4 POL C15 AUFS	
0	Q 1	50.03 0514	BF366	BF 366	NPN
0	R 1	57.11.3103	10k	MF, 1%, 0207	
0	R 2	57.11.3103	10k	MF, 1%, 0207	
0	R 3	57.11.3102	10k	MF, 1%, 0207	
0	R 4	57.11.3121	120R	MF, 1%, 0207	
0	R 5	57.11.3121	120R	MF, 1%, 0207	
0	R 6	not used	not used	not used	
0	R 7	57.11.3223	22k	MF, 1%, 0207	
0	R 8	57.11.3183	18k	MF, 1%, 0207	
0	R 9	57.11.3152	1k5	MF, 1%, 0207	
0	R 10	57.11.3103	10k	MF, 1%, 0207	
0	R 11	57.11.3103	10k	MF, 1%, 0207	
0	R 12	57.11.3103	10k	MF, 1%, 0207	
0	R 13	57.11.3103	10k	MF, 1%, 0207	
0	R 14	57.11.3106	1M0	MF, 1%, 0207	
0	R 15	57.11.3103	10k	MF, 1%, 0207	
0	R 16	57.11.3562	5k6	MF, 1%, 0207	
0	R 17	57.11.3103	10k	MF, 1%, 0207	
0	R 18	57.11.3103	10k	MF, 1%, 0207	
0	R 19	57.11.3121	120R	MF, 1%, 0207	
0	R 20	not used	not used	not used	

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	R 31	57.11.3103	10K	MF, 1%, 0207	
0	R 32	57.11.3472	4K7	MF, 1%, 0207	
0	R 33	57.11.3472	4K7	MF, 1%, 0207	
0	R 34	57.11.3472	4K7	MF, 1%, 0207	
0	R 35	57.11.3101	100R	MF, 1%, 0207	
0	R 36	57.11.3105	1M0	MF, 1%, 0207	
0	R 37	57.11.3681	680R	MF, 1%, 0207	
0	R 38	57.11.3681	680R	MF, 1%, 0207	
0	R 39	57.11.3822	8K2	MF, 1%, 0207	
0	R 40	57.11.3822	8K2	MF, 1%, 0207	
0	R 41	58.05.0501	500R	10%, 0.5W, Cermet	
1	T 1	1.022.230.82	Trafo		DISKRIMINATORTRAFO
1	T 2	1.022.230.82	Trafo		DISKRIMINATORTRAFO
0	TP 1	29.21.6002	1-P		LCETOESE
0	TP 2	29.21.6002	1-P		LCETOESE
0	TP 3	29.21.6002	1-P		LCETOESE
0	TP 4	29.21.6002	1-P		LCETOESE

—— End of List

Comments:

- Comments:**
- * Note 1; Pot: Bourns, Nr.: 3296 Z-1-501
 - * Spectrol, Nr.: 64 Z 501 T 000
 - * Murata, Nr.: Pot 3105 Z-1-501

- * Note 2: Plug: 5-Pin AMP, NR.: --163.680-3

- * Note 3: Plug: 9-Pin AMP, Nr.: --163.680-7

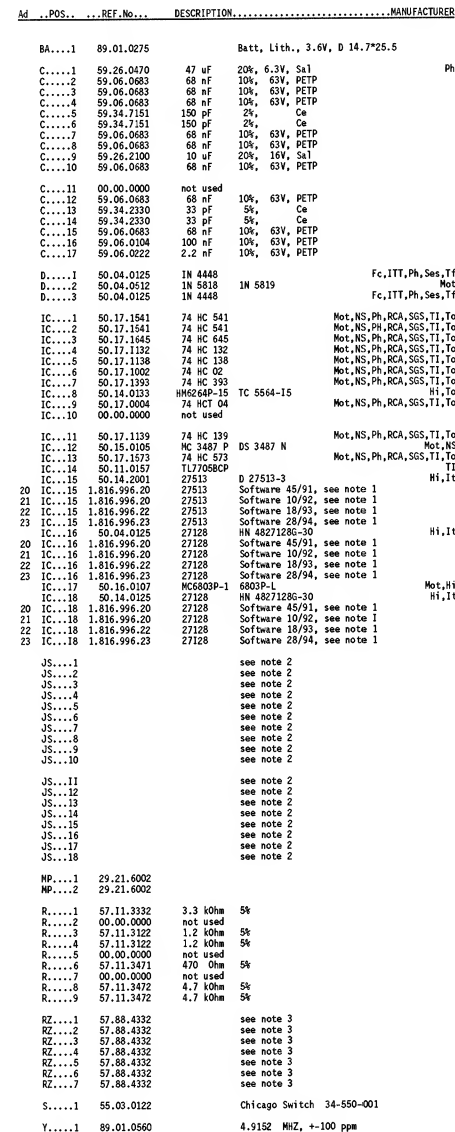
- * Note 4: Plug: 3-Pin AMP, Nr.: --163.680-1

- * CE=Ceramic, EL=Electrolytic, PETP=Polyester Film

- * MANUFACTURER: Fc=Fairchild, Gl=General Instruments, IT=Intermetall,
* Mot=Motorola, NS=National Semiconductors, Ph=Philips,
* Sie=Siemens, St=Studer, Ti=Texas Instruments

(o1) T1+T2 -81 changed to -82



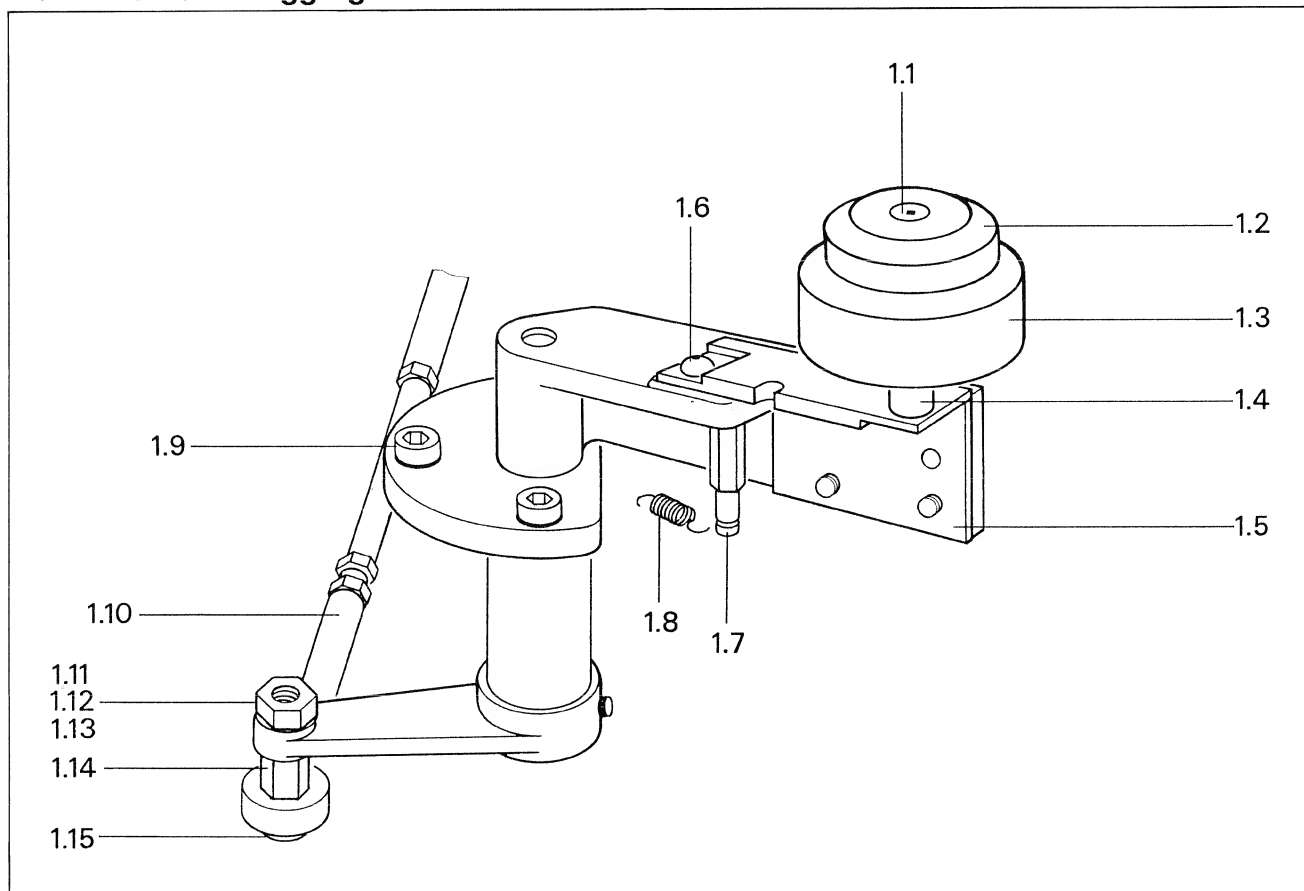


(21) 92/03/09 Software 10/92 (RBT Confirmed)

Bandabhebeaggregat, Andruckmechanik

Pos.	Menge	Bestell-Nr.	Bezeichnung	Spezifikation
1	1	1.014.732.00	Abhebemagnet	
2	1	1.014.731.00	Andruckmagnet	
3	1	1.816.130.00	Bandabhebeaggregat	
3.1	1	1.816.131.00	Bandabheberolle komplett	
3.2	1	1.862.120.07	Gelenkstück	
4	1	1.816.132.00	Zugstange zu Abhebemagnet, kompl.	
5	1	1.816.142.00	Anker mit Gelenkstück	
5.1	1	1.816.140.05	Gewindestange zu Andruckmagnet	
5.2	1	1.862.120.07	Gelenkstück	
5.3	1	1.010.219.37	Andruckfeder	
6	1	1.816.090.34	Gewindestange zu Edithebel	
7	1	1.816.134.08	Drehknopf (EDIT)	

9.6 Andruckkaggregat

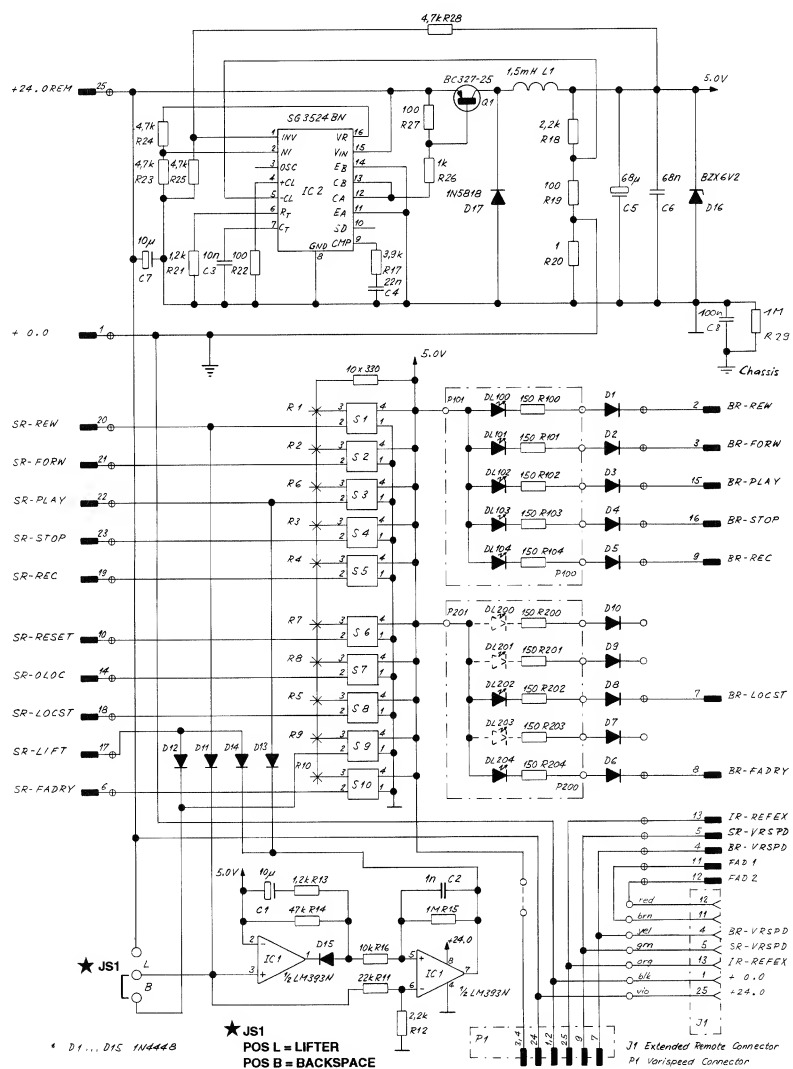


Andruckkaggregat

Pos.	Menge	Bestell-Nr.	Bezeichnung	Spezifikation
1	1	1.816.140.00	Andruckkaggregat kompl.	
1.1	1	1.010.036.21	Senkschraube spezial	M4 x 14
1.2	1	1.816.090.45	Rollendeckel	
1.3	1	1.816.138.00	Andruckrolle	
1.4	1	1.816.141.04	Andruckrollen-Achse	
1.5	1	1.816.141.03	Achsenhalter, einstellbar	
1.6	1	21.51.8455	Linsenschraube	M4 x 8
1.7	1	1.816.141.05	Sechskantbolzen spezial	
1.8	1	1.010.104.37	Feder	D5 / 13,6
1.9	3	21.53.0457	Z-Schraube mit Sicherungsscheibe	M4 x 12
1.10	1	1.862.120.07	Bronzehebel	
1.11	1	22.01.8040	Mutter	M4/0,8 D
1.12	1	23.01.1040	Rippenscheibe	zu M4
1.13	1	23.01.1043	Unterlagsscheibe	D 4,3/8,0
1.14	1	1.816.140.03	Sechskantbolzen spezial	
1.15	1	24.16.3032	Benzing-Sicherungsscheibe	D 3,2

TAPE DECK REMOTE CONTROL CABINET (PARALLEL) 1.328.250.81

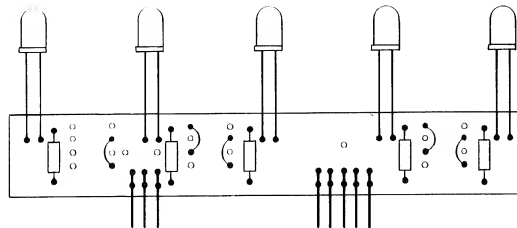
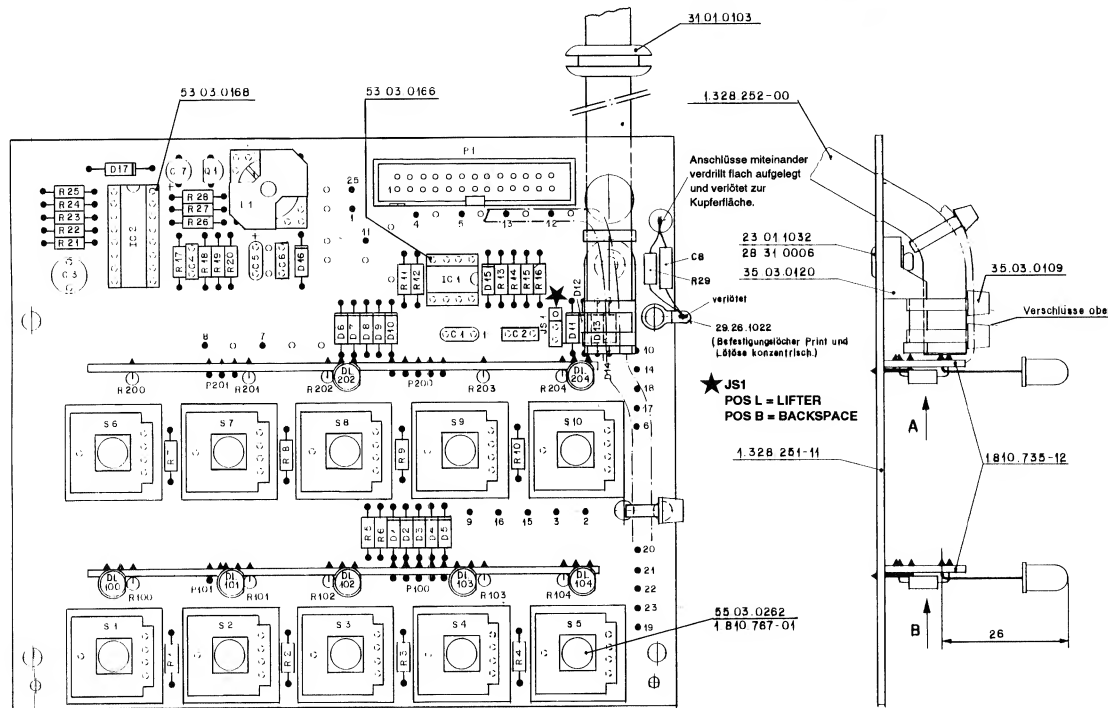
- Tape Deck Remote Control PCB 1.328.251.81



0	142.94 ML	...	...	...	...
					PAGE 1 OF 1
STUDER	TAPE DECK REMOTE CONTROL	SC	1.328.251-81		

TAPE DECK REMOTE CONTROL CABINET (PARALLEL) 1.328.250.81

- Tape Deck Remote Control PCB 1.328.251.81



Ansicht A+B

A nur 2 DL und 2 Draht-
brücken bestückt.

STÜCKER
BEREICH
ZÜRICH

TAPE DECK REMOTE
CONTROL BOARD ESE

1.328.251-81

Ad ..POS... REF.No... DESCRIPTION.....MANUFACTURER

DL..201	50.04.2112	not used		
DL..202	50.04.2112	Mu5353	CM4-5848, HLMP-3401	CM,GI,HP
DL..203	50.04.2112	not used		
DL..204	50.04.2112	Mu5353	CM4-5848, HLMP-3401	CM,GI,HP
IC...1	50.05.0283	LM393N		NS,Tho,TI
IC...2	50.05.0279	SG3524BN		SG
JS...1		See note 1		
L....1	1.022.197.00	1.5 mH		St
P....1	54.14.2003	26 cont. See note 2		
P...100	54.01.0269	5 cont. AMP Nr. 163.740-3		
P...101	54.01.0227	3 cont. AMP Nr. 163.740-1		
P...200	54.01.0269	5 cont. AMP Nr. 163.740-3		
P...201	54.01.0227	3 cont. AMP Nr. 163.740-1		
Q....1	50.03.0351	BC327-25		ITT,Ph,Sie
R....1	57.11.3331	330 Ohm		
R....2	57.11.3331	330 Ohm		
R....3	57.11.3331	330 Ohm		
R....4	57.11.3331	330 Ohm		
R....5	57.11.3331	330 Ohm		
R....6	57.11.3331	330 Ohm		
R....7	57.11.3331	330 Ohm		
R....8	57.11.3331	330 Ohm		
R....9	57.11.3331	330 Ohm		
R....10	57.11.3331	330 Ohm		
R....11	57.11.3223	22 kOhm		
R....12	57.11.3222	2.2 kOhm		
R....13	57.11.3122	1.2 kOhm		
R....14	57.11.3473	47 kOhm		
R....15	57.11.3106	1 MOhm		
R....16	57.11.3103	10 kOhm		
R....17	57.11.3392	3.9 kOhm		
R....18	57.11.3222	2.2 kOhm		
R....19	57.11.3101	100 Ohm		
R....20	57.11.3109	1 Ohm		
R....21	57.11.3122	1.2 kOhm		
R....22	57.11.3101	100 Ohm		
R....23	57.11.3472	4.7 kOhm		
R....24	57.11.3472	4.7 kOhm		
R....25	57.11.3472	4.7 kOhm		
R....26	57.11.3102	1 kOhm		
R....27	57.11.3101	100 Ohm		
R....28	57.11.3472	4.7 kOhm		
R....29	57.11.3106	1 MOhm		
R...100	57.11.3151	150 Ohm		
R...101	57.11.3151	150 Ohm		
R...102	57.11.3151	150 Ohm		
R...103	57.11.3151	150 Ohm		
R...104	57.11.3151	150 Ohm		
R...200	57.11.3151	150 Ohm		
R...201	57.11.3151	150 Ohm		
R...202	57.11.3151	150 Ohm		
R...203	57.11.3151	150 Ohm		
R...204	57.11.3151	150 Ohm		

Ad ..POS... REF.No... DESCRIPTION.....MANUFACTURER

C....1	59.26.2100	10 uF	20%, 16V, Sal	Ph
C....2	59.06.5102	1 nF	5%, PETP	
C....3	59.05.1103	10 nF	1%, PP	
C....4	59.06.0223	22 nF	10%, PETP	
C....5	59.26.0680	68 uF	20%, 6.3V, Sal	Ph
C....6	59.06.0683	68 nF	20%, PETP	
C....7	59.22.6100	10 uF	-10%, 40V, EI	
C....8	59.03.2104	1 nF	35V/us	
D....1	50.04.0125	IN4448		Fc,ITT,Ph,Ses,Tf
D....2	50.04.0125	IN4448		Fc,ITT,Ph,Ses,Tf
D....3	50.04.0125	IN4448		Fc,ITT,Ph,Ses,Tf
D....4	50.04.0125	IN4448		Fc,ITT,Ph,Ses,Tf
D....5	50.04.0125	IN4448		Fc,ITT,Ph,Ses,Tf
D....6	50.04.0125	IN4448		Fc,ITT,Ph,Ses,Tf
D....7	50.04.0125	IN4448		Fc,ITT,Ph,Ses,Tf
D....8	50.04.0125	IN4448		Fc,ITT,Ph,Ses,Tf
D....9	50.04.0125	IN4448		Fc,ITT,Ph,Ses,Tf
D....10	50.04.0125	IN4448		Fc,ITT,Ph,Ses,Tf
D....11	50.04.0125	IN4448		Fc,ITT,Ph,Ses,Tf
D....12	50.04.0125	IN4448		Fc,ITT,Ph,Ses,Tf
D....13	50.04.0125	IN4448		Fc,ITT,Ph,Ses,Tf
D....14	50.04.0125	IN4448		Fc,ITT,Ph,Ses,Tf
D....15	50.04.0125	IN4448		Fc,ITT,Ph,Ses,Tf
D....16	50.04.1118	6.2 V Z	BZX83C 6.2, BZX55C 6.2, ZPD 6.2	ITT,Ses
D....17	50.04.0512	1N5818		ITT,Ses

S....1	See note 3
S....2	See note 3
S....3	See note 3
S....4	See note 3
S....5	See note 3
S....6	See note 3
S....7	See note 3
S....8	See note 3
S....9	See note 3
S....10	See note 3

Note 1 - Contact pin: Studer 54.01.0020, Berg 75 160-102-36
Bridge: Studer 54.01.0021, Philips 2422 024 88003

Note 2 - Connector: Yamaichi FAP-26-08/4, Burndy BPH 9 8 26 B00 GS

Note 3 - Switch: Studer 55.03.0261, Rafi 3.13001.110
Extender: Studer 55.03.0266, Rafi 5.56101.690

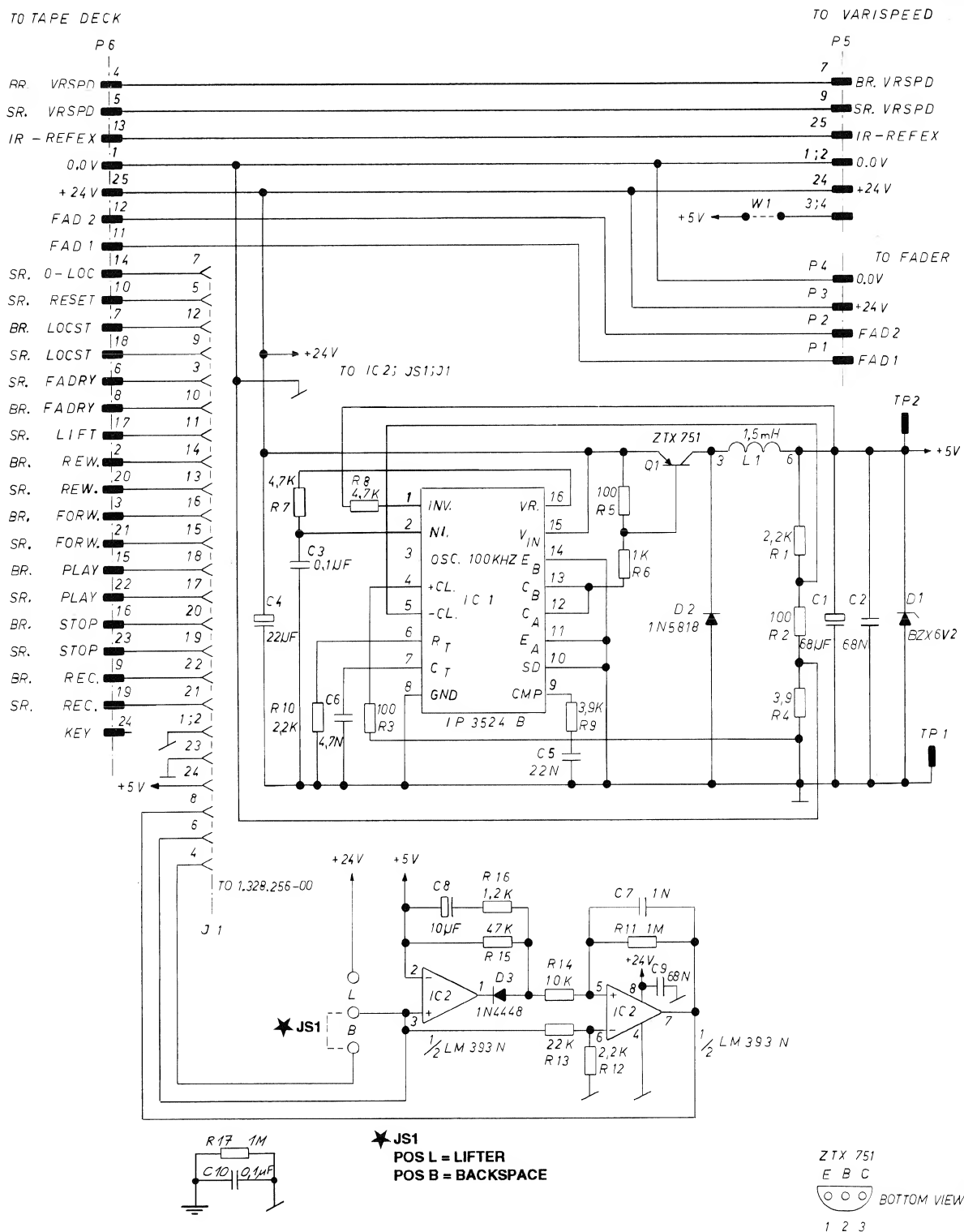
Ce=Ceramic, El=Electrolytic, Sal=Solid aluminium, PETP=Polyesterfilm, Pp=Polypropylen.

MANUFACTURER: CM=Chicago Miniatur, Fc=Fairchild, GI=General Instruments, HP=Hewlett Packard, ITT=Intermetall, Mot=Motorola, NS=National Semiconductor, Ph=Philips, Ses=Sescom, SG=Silicon General, Sie=Siemens, St=Studer, Tho=Thomson, TI=Texas Instruments, Tf=Telefunken.

1.328.251.81 TAPE DECK REMOTE CONTROL ML 94/012600

TAPE DECK REMOTE CONTROL MODULE (PARALLEL) 1.328.255.81

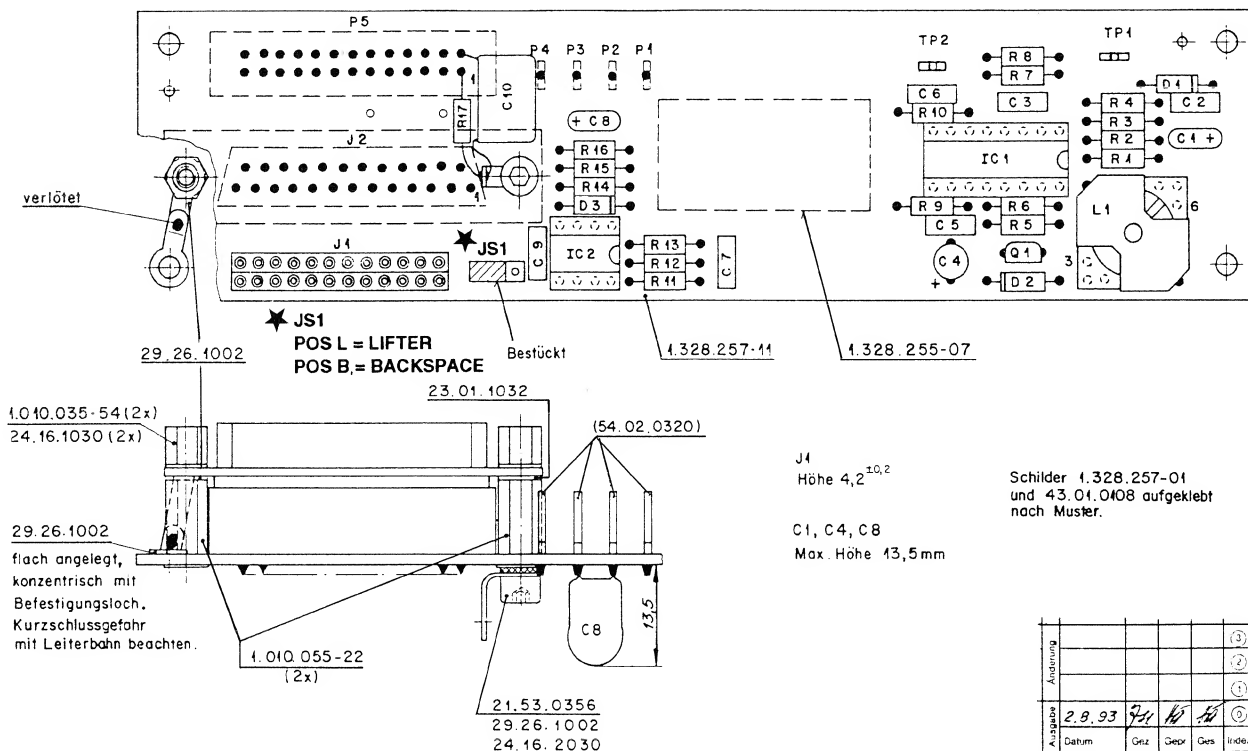
- Connector PCB 1.328.257.81



02.08.93 C. METZ	..	..	..	..
			MODUL PARALLEL A727, A812, A820	PAGE 1 OF 1
STUDER			CONNECTOR BOARD	SC 1,328.257-81

TAPE DECK REMOTE CONTROL MODULE (PARALLEL) 1.328.255.81

- Connector PCB 1.328.257.81



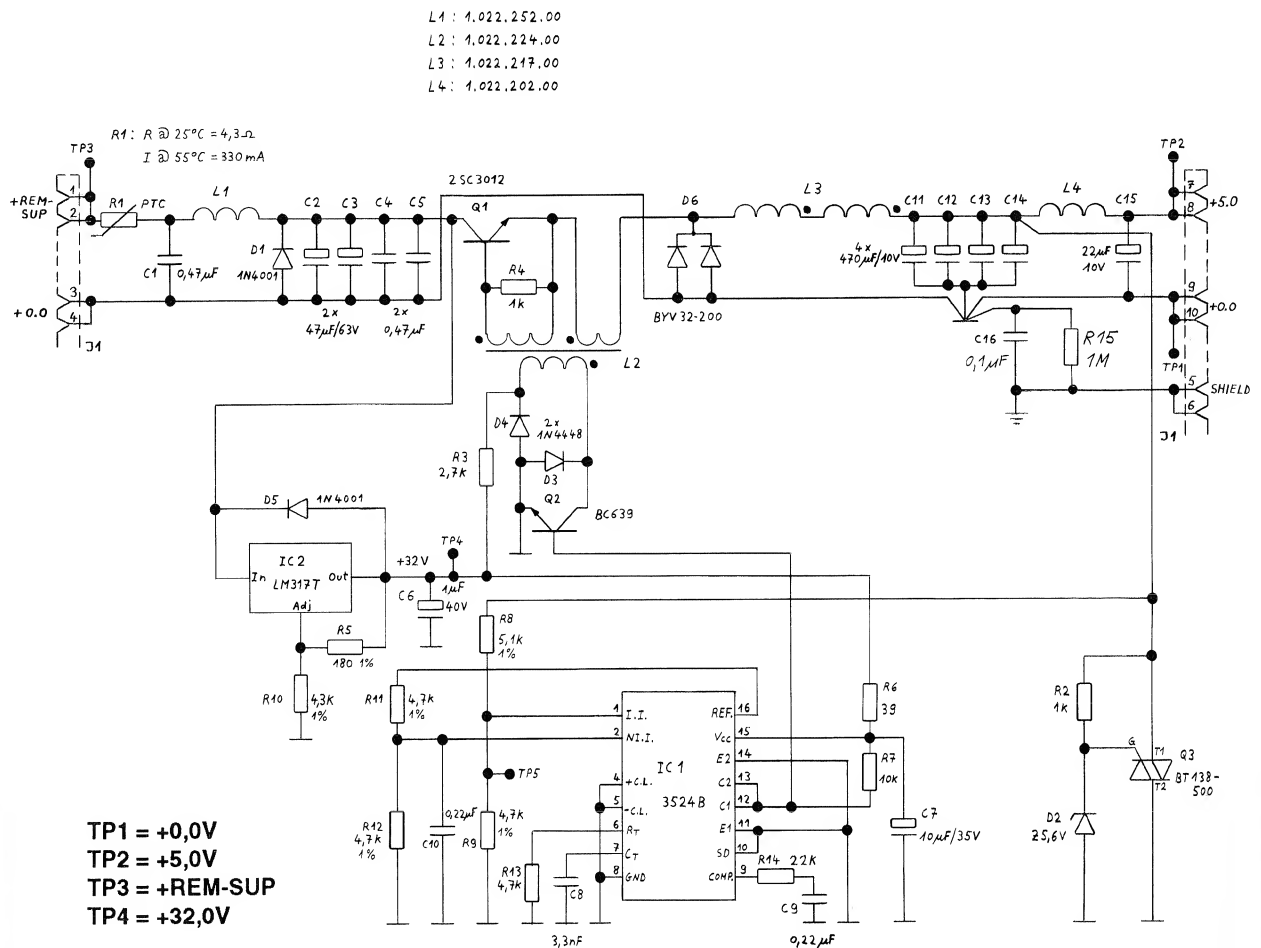
Änderung					
1					
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3					
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10					

STUDER	REF. No.	DESCRIPTION	MANUFACTURER
REF. No.	DESCRIPTION	MANUFACTURER	
1.328.257-81	CONNECTOR BOARD	ESE	

Ad	..POS..	..REF.No..	DESCRIPTION	MANUFACTURER
C.....1	59.26.0680	68 u	20%, 6.3V, SAL	
C.....2	59.06.0683	0.068 u	10%, 63V, PETP	
C.....3	59.06.0104	0.1 u	10%, 63V, PETP	
C.....4	59.22.6220	22 u	-20%, 35V, EL	
C.....5	59.06.0223	0.022 u	10%, 63V, PETP	
C.....6	59.06.0472	4700 p	10%, 63V, PETP	
C.....7	59.06.0102	1000 p	10%, 63V, PETP	
C.....8	59.26.2100	10 u	20%, 16V, SAL	
C.....9	59.06.0683	0.068 u	10%, 63V, PETP	
C.....10	59.03.2104	0.1 u	10%, 160V, PETP	
D.....1	50.04.1118	BZX 6V2	5%, 6.2V, 0.40 W, Z.	
D.....2	50.04.0512	1 N 5818	Schottky	
D.....3	50.04.0125	1 N 4448	75 V; 100 mA; Si.	
IC.....1	50.05.0279	IP 3524 B	Regulating pulse width modulator	IPS.
IC.....2	50.05.0283	LM 393 N	Dual low power comparator	TI.
J.....1	53.03.0218	2 * 12 Pin	Socket terminal strip	
J.....2	54.13.0023		D-type, 25 pin print female connector	
JS.....1	54.01.0021	2 * 0.63	Jumper (See Note 1)	
L.....1	1.022.197.00	1,5 mH	Choke	
P.....1	54.02.0320	2.8 * 0.8	Soldering pin	
P.....2	54.02.0320	2.8 * 0.8	Soldering pin	
P.....3	54.02.0320	2.8 * 0.8	Soldering pin	
P.....4	54.02.0320	2.8 * 0.8	Soldering pin	
P.....5	54.14.2003		26 Pin print male connector	
Q.....1	50.03.0352	ZTX 751 S	60 V, 2 A, PNP Si.	
R.....1	57.11.3222	2.2 k	1%, 0207, MF	
R.....2	57.11.3101	100	1%, 0207, MF	
R.....3	57.11.3101	100	1%, 0207, MF	
R.....4	57.11.3399	3.9	1%, 0207, MF	
R.....5	57.11.3101	100	1%, 0207, MF	
R.....6	57.11.3102	1.0 k	1%, 0207, MF	
R.....7	57.11.3472	4.7 k	1%, 0207, MF	
R.....8	57.11.3472	4.7 k	1%, 0207, MF	
R.....9	57.11.3392	3.9 k	1%, 0207, MF	
R.....10	57.11.3222	2.2 k	1%, 0207, MF	
R.....11	57.11.3105	1 M	1%, 0207, MF	
R.....12	57.11.3222	2.2 k	1%, 0207, MF	
R.....13	57.11.3223	22 k	1%, 0207, MF	
R.....14	57.11.3103	10 k	1%, 0207, MF	
R.....15	57.11.3473	47 k	1%, 0207, MF	
R.....16	57.11.3122	1.2 k	1%, 0207, MF	
R.....17	57.11.3105	1 M	1%, 0207, MF	
TP.....1	54.02.0320	2.8 * 0.8	Soldering pin	
TP.....2	54.02.0320	2.8 * 0.8	Soldering pin	
W.....1	1.010.324.64	4.3 * 10.2	Bridge (not inserted)	
Note 1: Jumper				
Contact Pin: Studer Nr. 54.01.0020				
Berg Nr. 77 311-102-36				
Philips Nr. 2422 062 43241				
Fawag Nr. AS 1-034/058-36 G-0.75u Au				
Studer Nr. 54.01.0021				
Berg Nr. 65 474-001				
Philips Nr. 2422 024 88003				
AMP Nr. 141 767-1				
CER=Ceramic, EL=Electrolytic, MP=Metallized Paper, MPC=Metallized Poly-carbonate, MPETP=Metallized Polyester, PC=Polycarbonate, PETP=Polyester, PP=Polypropylene, PS=Polystyrol, SAL=Solid Aluminium, TA=Tantal Cermet-Ceramic Metal, MF=Metal Film.				
MANUFACTURERS : Fe=Ferranti, IPS=Integrated Power Semiconductors Limited, Mot=Motorola, St=Studer, TI=Texas Instruments				
Fe.	1.328.257.81	CONNECTORS BOARD	GP 93/08/0200	

REMOTE TIMER / LAP MODE DISPLAY 1.328.270.00

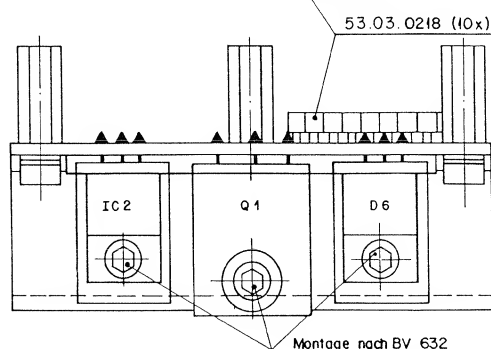
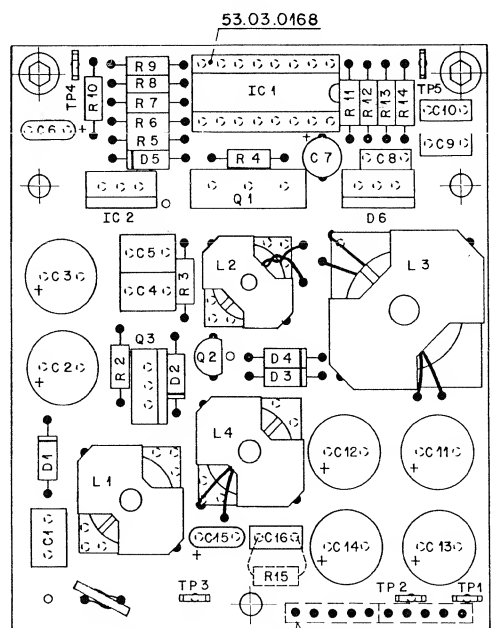
- Stabilizer PCB 1.328.213.81



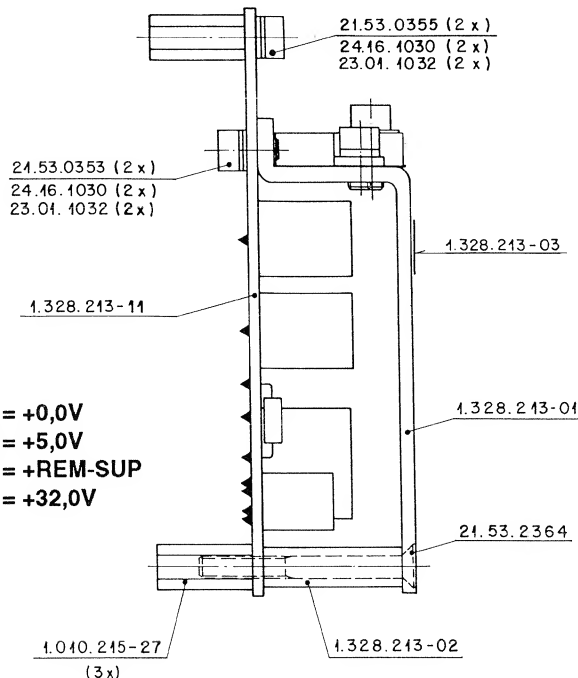
① 24.10.85 CHE	○ . .	○ . .	○ . .	○ . .
	A820/A812			PAGE 1 OF 1
STUDER	STABILIZER BOARD	SC	1.328.213.81	

REMOTE TIMER / LAP MODE DISPLAY 1.328.270.00

- Stabilizer PCB 1.328.213.81



TP1 = +0,0V
 TP2 = +5,0V
 TP3 = +REM-SUP
 TP4 = +32,0V



Änderung					③
					②
					①
Ausgabe	24.10.91	74	10	10	①
Datum		Grz	Gespr	Ges	Index
Kopie für:					
Benennung	STABILIZER BOARD ESE				
Nummer	1.328.213-81				

Ad ..POS.. ..REF.No... DESCRIPTION.....MANUFACTURER

C.....1	59.06.0474	0.47 uF	10%,	PETP	
C.....2	59.22.8470	47 uF	20%,	63V, EL	
C.....3	59.22.8470	47 uF	20%,	63V, EL	
C.....4	59.06.0474	0.47 uF	10%,	PETP	
C.....5	59.06.0474	0.47 uF	10%,	PETP	
C.....6	59.26.9109	1 uF	20%,	40V, SAL	
C.....7	59.22.6100	10 uF	-20%,	35V, EL	
C.....8	59.06.0332	3300 pF	10%,	PETP	
C.....9	59.06.0224	0.22 uF	10%,	PETP	
C.....10	59.06.0224	0.22 uF	10%,	PETP	

C.....11	59.22.3471	470 uF	-20%,	10V, EL	
C.....12	59.22.3471	470 uF	-20%,	10V, EL	
C.....13	59.22.3471	470 uF	-20%,	10V, EL	
C.....14	59.22.3471	470 uF	-20%,	10V, EL	
C.....15	59.26.1220	22 uF	20%,	10V, SAL	
C.....16	59.06.0104	0.1 uF	10%,	50V, PETP	

D.....1	50.04.0122	1N 4001		Mot	
D.....2	50.04.1108	5.6 V	BZX83 C 5V6, BZX55 C 5V6,	ZPD 5.6 Ses,ITT	
D.....3	50.04.0125	1N 4448		Fc,ITT,Ph,Ses	
D.....4	50.04.0125	1N 4448		Fc,ITT,Ph,Ses	
D.....5	50.04.0122	1N 4001		Mot	
D.....6	50.04.0517	BYV32-200		Mot,Ph	

IC.....1	50.05.0279	SG 3524BN		SG	
IC.....2	50.10.0104	LM 317T	LM 317 SP	Tho,Mot,NS,TI	

J.....1	00.00.0000		see note 1		
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.....1	1.022.252.00	0.32 mH	Filter Coil	St	
.....2	1.022.224.00		Power Supply Transformer	St	
.....3	1.022.217.00	46 uH	HF-Coil, 5A	St	
.....4	1.022.202.00	16.9 mH	Filter Coil	St	

Q.....1	50.03.0517	2 SC 3012	NPN	NEC	
Q.....2	50.03.0551	BC 639	NPN	Mot,Ph	
Q.....3	50.99.0106	T 2800	400V, 8A, Triac	Ph	

Ad ..POS.. ..REF.No... DESCRIPTION.....MANUFACTURER

R.....1	57.92.1331	PTC	see note 2	Ph	
R.....2	57.11.3102	1 kOhm	1%		
R.....3	57.11.3272	2.7 kOhm	1%		
R.....4	57.11.3102	1 kOhm	1%		
R.....5	57.11.3181	180 Ohm	1%		
R.....6	57.11.3390	39 Ohm	1%		
R.....7	57.11.3103	10 kOhm	1%		
R.....8	57.11.3512	5.1 kOhm	1%		
R.....9	57.11.3472	4.7 kOhm	1%		
R.....10	57.11.3432	4.3 kOhm	1%		

R.....11	57.11.3472	4.7 kOhm	1%		
R.....12	57.11.3472	4.7 kOhm	1%		
R.....13	57.11.3472	4.7 kOhm	1%		
R.....14	57.11.3223	22 kOhm	1%		
R.....15	57.11.3105	1 MOhm	1%		

TP....1	54.02.0320	Test Point			
TP....2	54.02.0320	Test Point			
TP....3	54.02.0320	Test Point			
TP....4	54.02.0320	Test Point			
TP....5	54.02.0320	Test Point			

EL=Electrolytic, SAL=Solid Aluminum, PETP=Polyester

MANUFACTURERS: Fc=Fairchild, ITT=Intermetall, Mot=Motorola,
 NEC=Nippon Electric Corp., NS=National Semiconductors,
 Ph=Philips, Ses=Sescom, SG=Silicon General, St=Studer
 Tho=Thomson, TI=Texas Instruments

Note 1 - Connector: 10 pieces Studer Nr.53.03.0218

Note 2 - PTC Thermistor: R @ 25 degree Celsius = 4.7 Ohm
 I @ 55 degree Celsius = 330 mA

Philips Nr.2322 663 13311

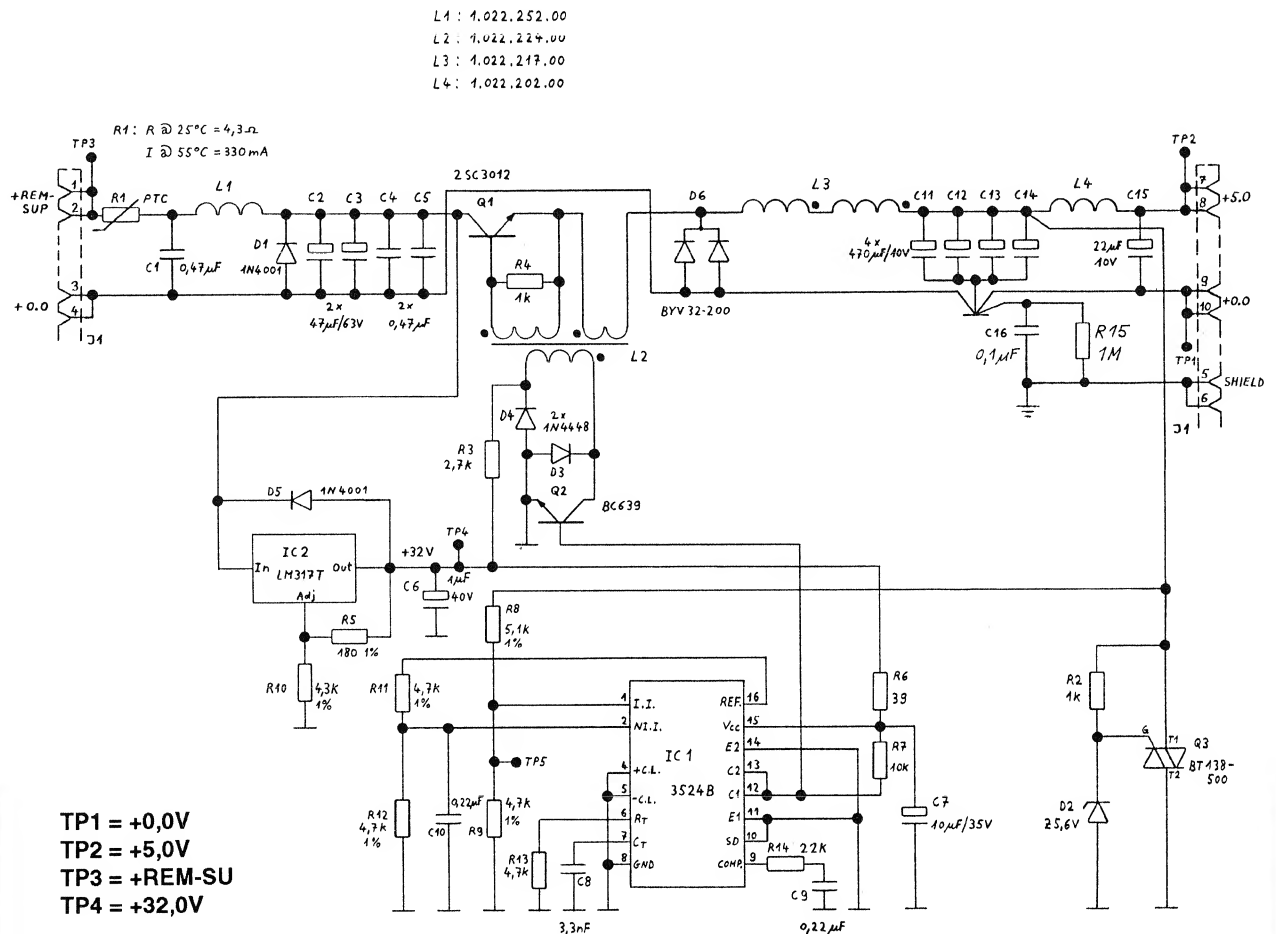
1.328.213.81 STABILIZER BOARD

BD91/10/2400

REMOTE CONTROL CABINET (SERIAL) 1.328.210.81

REMOTE CONTROL MODULE (SERIAL) 1.328.220.81

- Stabilizer PCB 1.328.213.81

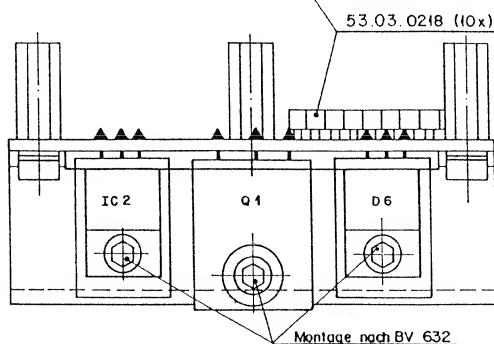
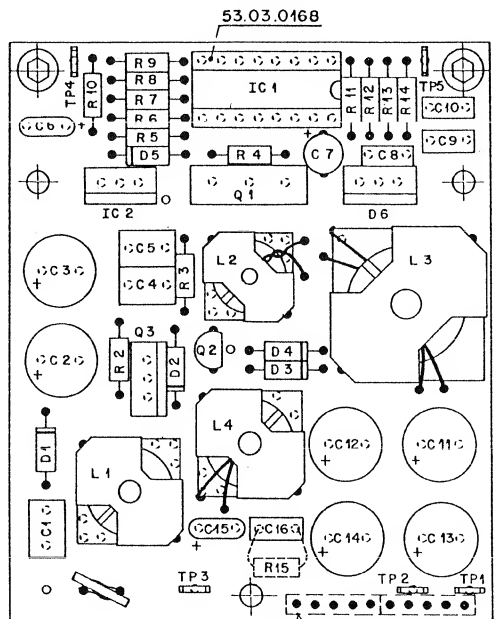


24.10.85	CHE	.	.	.	.
		A820/A812			PAGE 1 OF 1
STUDER	STABILIZER BOARD				SC 1.328.213.81

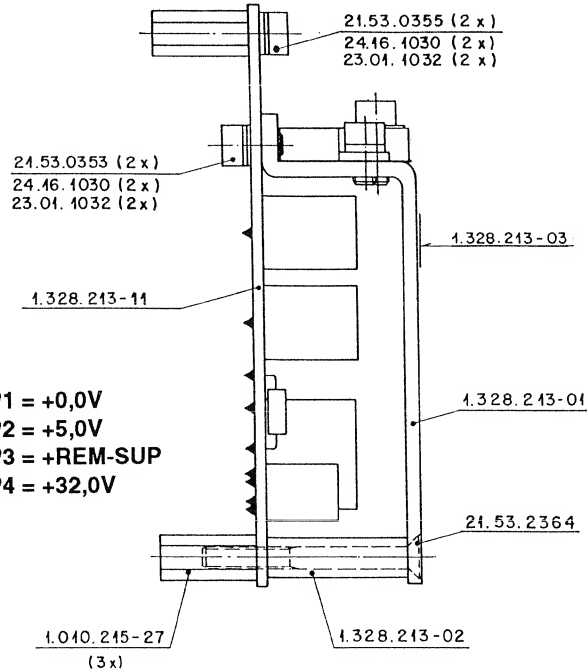
REMOTE CONTROL CABINET (SERIAL) 1.328.210.81

REMOTE CONTROL MODULE (SERIAL) 1.328.220.81

- Stabilizer PCB 1.328.213.81



Montage nach BV 632



					(3)
					(2)
					(1)
Ausgabe	24.10.91	74	12	12	(0)
Datum	Gez	Gepr	Ges	Inde	

Kopie für

STUOER REGENSDORF ZÜRICH	Benennung STABILIZER BOARD ESE	Nummer 1.328.213-81
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Ad	..POS..	..REF.No...	DESCRIPTION	MANUFACTURER
C.....1	59.06.0474	0.47 uF	10%, PETP	
C.....2	59.22.8470	47 uF	20%, 63V, EL	
C.....3	59.22.8470	47 uF	20%, 63V, EL	
C.....4	59.06.0474	0.47 uF	10%, PETP	
C.....5	59.06.0474	0.47 uF	10%, PETP	
C.....6	59.26.9109	1 uF	20%, 40V, SAL	
C.....7	59.22.5100	10 uF	-20%, 35V, EL	
C.....8	59.06.0332	3300 pF	10%, PETP	
C.....9	59.06.0224	0.22 uF	10%, PETP	
C.....10	59.06.0224	0.22 uF	10%, PETP	
C.....11	59.22.3471	470 uF	-20%, 10V, EL	
C.....12	59.22.3471	470 uF	-20%, 10V, EL	
C.....13	59.22.3471	470 uF	-20%, 10V, EL	
C.....14	59.22.3471	470 uF	-20%, 10V, EL	
C.....15	59.26.1220	22 uF	20%, 10V, SAL	
C.....16	59.06.0104	0.1 uF	10%, 50V, PETP	
D.....1	50.04.0122	1N 4001		Mot
D.....2	50.04.1108	5.6 V	BZX83 C 5V6, BZX55 C 5V6, ZPD 5.6 Ses,ITT	
D.....3	50.04.0125	1N 4448		Fc,ITT,Ph,Ses
D.....4	50.04.0125	1N 4448		Fc,ITT,Ph,Ses
D.....5	50.04.0122	1N 4001		Mot
D.....6	50.04.0517	BYV32-200		Mot,Ph
IC.....1	50.05.0279	SG 35248N		SG
IC.....2	50.10.0104	LM 317	LM 317 SP	Tho,Mot,NS,TI
J.....1	00.00.0000		see note 1	
L.....1	1.022.252.00	0.32 mH	Filter Coil	St
L.....2	1.022.224.00		Power Supply Transformer	St
L.....3	1.022.217.00	46 uH	HF-Coil, 5A	St
L.....4	1.022.202.00	16.9 mH	Filter Coil	St
Q.....1	50.03.0517	2 SC 3012	NPN	NEC
Q.....2	50.03.0551	BC 639	NPN	Mot,Ph
Q.....3	50.99.0106	T 2800	400V, 8A,Triac	Ph

Ad	..POS...	..REF.No...	DESCRIPTION.....	MANUFACTURER
R.....1	57.92.1331	PTC	see note 2	Ph
R.....2	57.11.3102	1	kOhm 1%	
R.....3	57.11.3272	2.7	kOhm 1%	
R.....4	57.11.3102	1	kOhm 1%	
R.....5	57.11.3181	180	Ohm 1%	
R.....6	57.11.3390	39	Ohm 1%	
R.....7	57.11.3103	10	kOhm 1%	
R.....8	57.11.3512	5.1	kOhm 1%	
R.....9	57.11.3472	4.7	kOhm 1%	
R.....10	57.11.3432	4.3	kOhm 1%	
R.....11	57.11.3472	4.7	kOhm 1%	
R.....12	57.11.3472	4.7	kOhm 1%	
R.....13	57.11.3472	4.7	kOhm 1%	
R.....14	57.11.3223	22	kOhm 1%	
R.....15	57.11.3105	1	MOhm 1%	
TP.....1	54.02.0320	Test Point		
TP.....2	54.02.0320	Test Point		
TP.....3	54.02.0320	Test Point		
TP.....4	54.02.0320	Test Point		
TP.....5	54.02.0320	Test Point		

EL=Electrolytic, SAL=Solid Aluminium, PETP=Polyester

MANUFACTURERS: Fc=Fairchild, ITT=Intermetall, Mot=Motorola,
NEC=Nippon Electric Corp., NS=National Semiconductors,
Ph=Philips, Ses=Sesocsem, SG=Silicon General, St=Studer
Tho=Thomson, TI=Texas Instruments

Note 1 - Connector: 10 pieces Studer Nr.53.03.0218

Note 2 - PTC Thermistor: R @ 25 degree Celsius = 4.7 Ohm
I @ 55 degree Celsius = 330 mA

Philips Nr.2322 663 13311

1.328.213.81 STABILIZER BOARD

BD91/10/2400

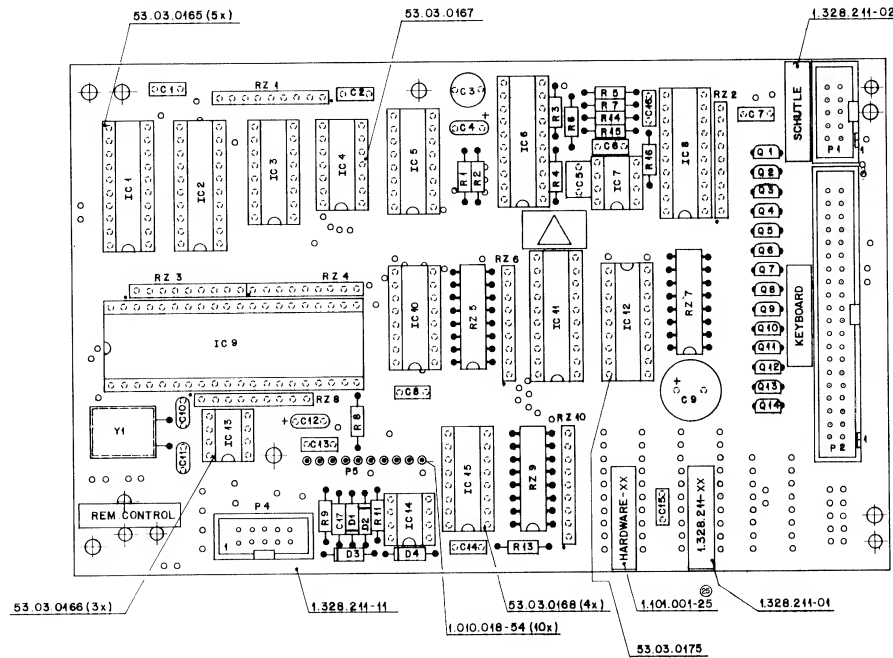


DEVICE SELECT		
J52	J51	DEVICE
L	L	RESERVE
L	H	AUTOLOCATOR
H	L	RESERVE
H	H	REMOTE CTRL

REMOTE CONTROL CABINET (SERIAL) 1.328.210.81

REMOTE CONTROL MODULE (SERIAL) 1.328.220.81

- Remote Control Driver PCB 1.328.211.25



STUDER
RESERVEZUG
ZÜRNCH

REMOTE CONTROL
DRIVER BOARD ESE

1.328.211.25

Ad .POS. REF.No. DESCRIPTION MANUFACTURER

20 C....1	59.06.0683	68 nF	10%, 63V, PETP	
20 C....2	59.06.0683	68 nF	10%, 63V, PETP	
20 C....3	59.06.2151	150 pF	2.5%, 30V, PP	
20 C....4	59.26.0680	68 uF	20%, 6.3V, Sa1	
20 C....5	59.06.0474	470 nF	10%, 63V, PETP	
20 C....6	59.06.0224	220 nF	10%, 63V, PETP	
20 C....7	59.06.0683	68 nF	10%, 63V, PETP	
20 C....8	59.06.0683	68 nF	10%, 63V, PETP	
20 C....9	59.22.3471	470 uF	-20%, 10V, EI	
20 C....10	59.34.2220	22 pF	5%, N150, Cer	
21 C....10	59.34.2330	33 pF	5%, N150, Cer	

21 C....11	59.34.2220	22 pF	5%, N150, Cer	
21 C....11	59.34.2330	33 pF	5%, N150, Cer	
20 C....12	59.26.1100	10 uF	20%, 10V, Sa1	
20 C....13	59.06.0104	100 nF	10%, 63V, PETP	
20 C....14	59.06.0683	68 nF	10%, 63V, PETP	
20 C....15	59.06.0683	68 nF	10%, 63V, PETP	
20 C....16	59.06.0104	100 nF	10%, 63V, PETP	
24 C....17	59.03.2472	4.7 nF	10%, 63V, PETP	

20 D....1	50.04.0125	1N 4448	Fc,ITT,Ph,Ses,Tf	
20 D....2	50.04.0125	1N 4448	Fc,ITT,Ph,Ses,Tf	
20 D....3	50.04.0125	1N 4448	Fc,ITT,Ph,Ses,Tf	
20 D....4	50.04.0125	1N 4448	Fc,ITT,Ph,Ses,Tf	

IC....1	50.14.0120	TBP28542N	TI	
20 IC....1	1.328.999.20	Software 13/85	St	
22 IC....1	1.328.999.21	Software 50/86	St	
23 IC....1	1.328.999.22	Software 29/87	St	
20 IC....2	50.17.1573	74 HC 573	Mot,NS,Ph,RCA,SGS,TI,To	
20 IC....3	50.17.1185	74 HC 138	Mot,NS,Ph,RCA,SGS,TI,To	
20 IC....4	50.17.1004	74 HC 04	Mot,NS,Ph,RCA,TI,To	
20 IC....5	50.17.1259	74 HC 259	Mot,NS,Ph,RCA,SGS,TI,To	
20 IC....6	50.07.0032	ABCD0031	Is,NS	
20 IC....7	50.05.0286	LM 358 N	Mot,NS,TI	
20 IC....8	50.17.1541	74 HC 541	Mot,NS,Ph,RCA,SGS,TI,To	
20 IC....9	50.16.0107	HC 6803P-1	Hi,Mot	
20 IC....10	50.15.0102	NE 590 N	Stg	

20 IC....11	50.17.1574	74 HC 574	Mot,NS,Ph,RCA,SGS,TI,To	
21 IC....11	50.17.1564	74 HC 564	Mot,NS,Ph,RCA,TI	
20 IC....12	50.15.0113	SN 75498 N	TI	
21 IC....12	50.15.0118	U0M-2995A	Sp	
20 IC....13	50.11.0122	TL7705ACP	TI	
20 IC....14	50.15.0115	SN 75176AP	NS,TI	
20 IC....15	50.15.0102	NE 590 N	Stg	
20 IC....16	not used			
20 IC....17	not used			

20 P....1	see note 2			
20 P....2	see note 3			
20 P....3	not used			
20 P....4	see note 2			
20 P....5	see note 4			

20 Q....1	50.03.0352	ZTX 751 S	Fe	
20 Q....2	50.03.0352	ZTX 751 S	Fe	
20 Q....3	50.03.0352	ZTX 751 S	Fe	
20 Q....4	50.03.0352	ZTX 751 S	Fe	
20 Q....5	50.03.0352	ZTX 751 S	Fe	
20 Q....6	50.03.0352	ZTX 751 S	Fe	
20 Q....7	50.03.0352	ZTX 751 S	Fe	
20 Q....8	50.03.0352	ZTX 751 S	Fe	
20 Q....9	50.03.0352	ZTX 751 S	Fe	
20 Q....10	50.03.0352	ZTX 751 S	Fe	
20 Q....11	50.03.0352	ZTX 751 S	Fe	
20 Q....12	50.03.0352	ZTX 751 S	Fe	
20 Q....13	50.03.0352	ZTX 751 S	Fe	
20 Q....14	50.03.0352	ZTX 751 S	Fe	

20 R....1	57.11.3100	10 Ohm	2%	
25 R....1	57.11.3470	47 Ohm	2%	
20 R....2	57.11.3103	10 kOhm	2%	
20 R....3	57.11.3101	100 Ohm	2%	
20 R....4	57.11.3243	24 kOhm	1%	
20 R....5	57.11.3104	100 kOhm	2%	
20 R....6	57.11.3243	24 kOhm	1%	
20 R....7	57.11.3104	100 kOhm	2%	
20 R....8	57.11.3332	3.3 kOhm	2%	
20 R....9	57.11.3103	10 kOhm	2%	
20 R....10	57.11.3102	1 kOhm	2%	
24 R....10	not used	replaced by C17		

20 R....11	57.11.3103	10 kOhm	2%	
20 R....12	57.11.3332	3.3 kOhm	2%	
20 R....13	57.11.3562	5.6 kOhm	1%	
20 R....14	57.11.3182	1.8 kOhm	1%	
20 R....15	57.11.3101	100 Ohm	2%	

20 RZ....1	57.88.4332	Network, 8 * 3.3 kOhm, 5%, single line		
20 RZ....2	57.88.4332	Network, 8 * 3.3 kOhm, 5%, single line		
20 RZ....3	57.88.4332	Network, 8 * 3.3 kOhm, 5%, single line		
20 RZ....4	57.88.4332	Network, 8 * 3.3 kOhm, 5%, single line		
20 RZ....5	57.88.4332	Network, 8 * 100 Ohm, 2%, DIL 16		
20 RZ....6	57.88.4332	Network, 8 * 3.3 kOhm, 5%, single line		
20 RZ....7	57.88.3220	Network, 8 * 22 Ohm, 2%, DIL 16		
20 RZ....8	57.88.4332	Network, 8 * 3.3 kOhm, 5%, single line		
20 RZ....9	57.88.3101	Network, 8 * 100 Ohm, 2%, DIL 16		
20 RZ....10	57.88.4332	Network, 8 * 3.3 kOhm, 5%, single line		

20 RZ....11	not used			
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20 Y....1	89.01.0563	4.9152 MHz	+100 ppm, Nymph Nr. TD 18/NMP 049	
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Ad .POS. REF.No. DESCRIPTION MANUFACTURER

21 Y....1	89.01.0560	HC-49/V	4.9152 MHz, +20ppm Quarz AG,ITT,Saronix	
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(20) 01.02.85	PC8 lay-out -11.			
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(21) 01.12.86	IC12-SN75498N delivered for spare purpose only, new devices IC11 and IC12.			
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(22) 08.12.86	Extended Autolocator key Board.			
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(23) 05.06.87	Software 29/87.			
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(24) 25.09.89	Improved noise suppression on differential line.			
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(25) 12.12.90	Ripple on AD-converter supply reduced.			
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Note 2 - Connector: 10 Contacts				
Studer Nr.	54.14.2001			
Yamaichi Nr.	FAP-10-08/4			
Burndy Nr.	8PH 7 B 10 800 GS			

Note 3 - Connector: 40 Contacts				
Studer Nr.	54.14.2004			
Yamaichi Nr.	FAP-40-08/4			
Burndy Nr.	8PH 9 B 40 800 GS			

Note 4 - Connector: 10 Pieces				
Studer Nr.	1.010.018.54			

Cer=Ceramic, El=Electrolytic, PETP=Polyester Film, PP=Polypropylen, Sa1=Solid Aluminium.				
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MANUFACTURERS: Fc=Fairchild, Fe=Ferranti, Hi=Hitachi, Is=Intersil, ITT=Intermetall, Mot=Motorola, NS=National Semiconductors, Ph=Philips, RCA=RCA Corporation, Ses=Seacom, SGS=SGS/Atas, Sig=Signetics, Sp=Sprague, St=Studer, Tf=Telefunken, TI=Texas Instruments, To= Toshiba.				
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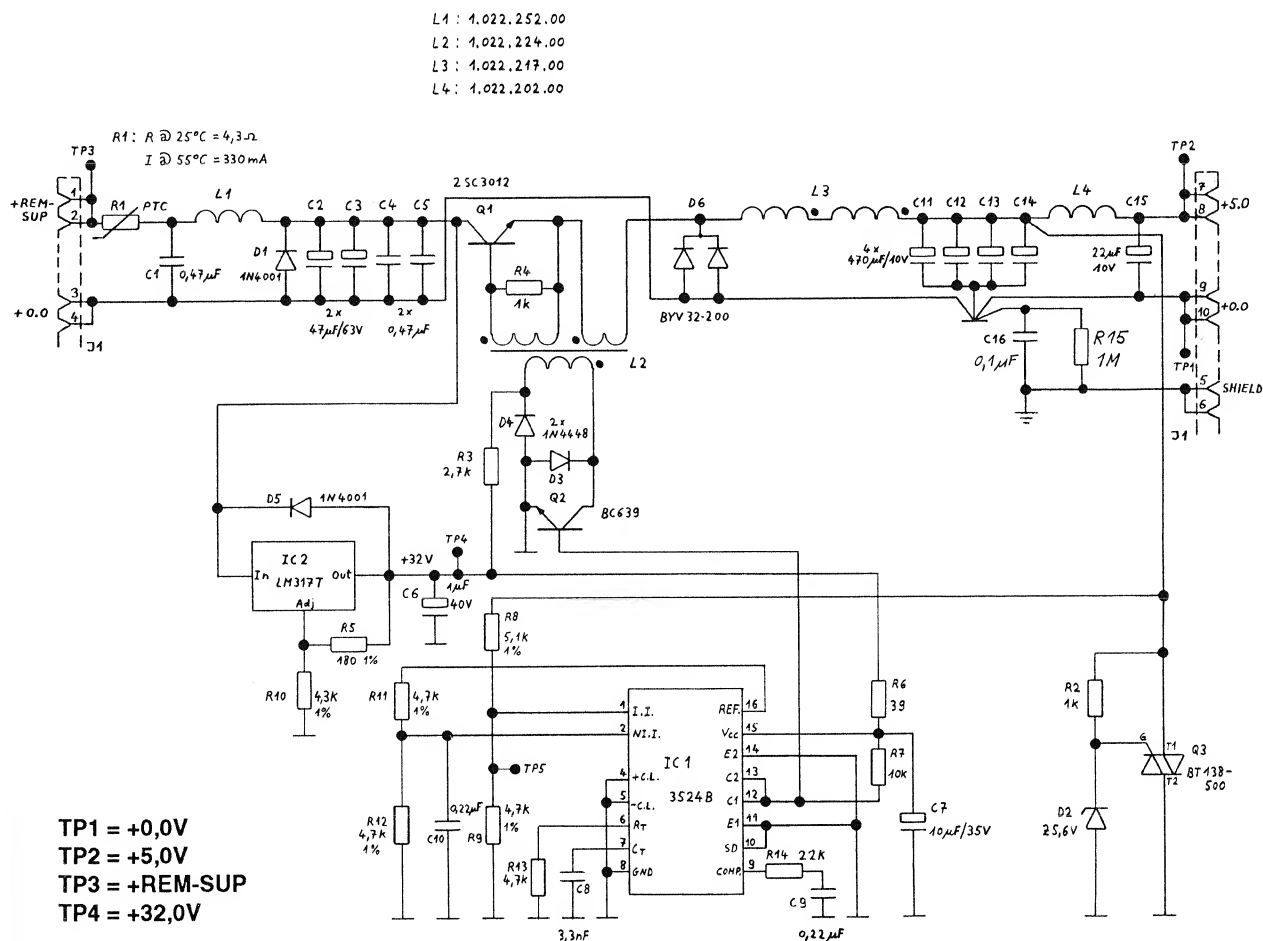
1.328.211.00	REMOTE CONTROL DRIVER BOARD	80	85/02/0100	
1.328.211.00	REMOTE CONTROL DRIVER BOARD	80	85/02/0120	
1.328.211.00	REMOTE CONTROL DRIVER BOARD	80	86/12/0121	
1.328.211.00	REMOTE CONTROL DRIVER BOARD	80	86/12/0822	
1.328.211.00	REMOTE CONTROL DRIVER BOARD	80	87/06/0523	
1.328.211.00	REMOTE CONTROL DRIVER BOARD	VF	89/09/2524	
1.328.211.00	REMOTE CONTROL DRIVER BOARD	Z8	90/12/1225	

END				
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AUTOLOCATOR MODULE 1.328.230.82

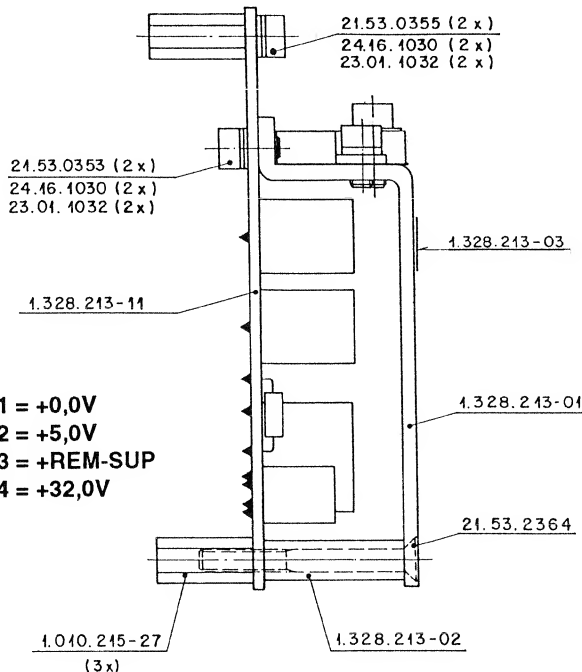
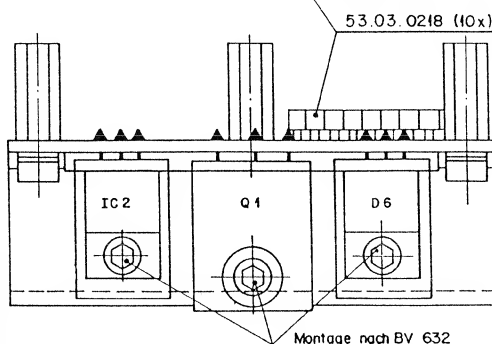
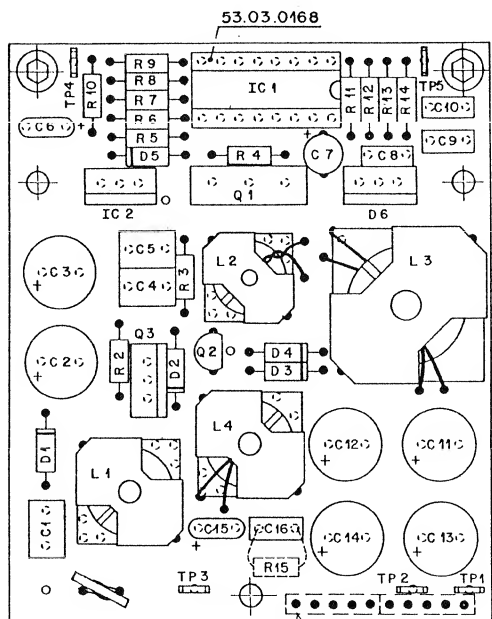
AUTOLOCATOR CABINET 1.328.240.82

- Stabilizer Board 1.328.213.81



(0) 24 . 10 . 85 CHE				A 8 2 0 / A 8 1 2	PAGE 1 OF 1
STUDER				SC STABILIZER BOARD	1 . 3 2 8 . 2 1 3 . 8 1

AUTOLOCATOR MODULE 1.328.230.82
AUTOLOCATOR CABINET 1.328.240.82
 - Stabilizer Board 1.328.213.81



TP1 = +0,0V
 TP2 = +5,0V
 TP3 = +REM-SUP
 TP4 = +32,0V

STUDER REGENSDORF ZÜRICH	Benennung: STABILIZER BOARD ESE	Kopie für:				
		Nr.	1.328.213-81			

Änderung					③
					②
					①
Ausgabe	24.10.91	Gez.	Gepr.	Ges.	④
Datum					
Gez.					
Gepr.					
Ges.					
Index					

Ad ..POS... ..REF.No... DESCRIPTION.....MANUFACTURER

C....1	59.06.0474	0.47 uF	10%,	PETP	
C....2	59.22.8470	47 uF	20%,	63V, EL	
C....3	59.22.8470	47 uF	20%,	63V, EL	
C....4	59.06.0474	0.47 uF	10%,	PETP	
C....5	59.06.0474	0.47 uF	10%,	PETP	
C....6	59.26.9109	1 uF	20%,	40V, SAL	
C....7	59.22.6100	10 uF	-20%,	35V, EL	
C....8	59.06.0332	3300 pF	10%,	PETP	
C....9	59.06.0224	0.22 uF	10%,	PETP	
C....10	59.06.0224	0.22 uF	10%,	PETP	
C....11	59.22.3471	470 uF	-20%,	10V, EL	
C....12	59.22.3471	470 uF	-20%,	10V, EL	
C....13	59.22.3471	470 uF	-20%,	10V, EL	
C....14	59.22.3471	470 uF	-20%,	10V, EL	
C....15	59.26.1220	22 uF	20%,	10V, SAL	
C....16	59.06.0104	0.1 uF	10%,	50V, PETP	
D....1	50.04.0122	1N 4001		Mot	
D....2	50.04.1108	5.6 V	BZX83 C 5V6, BZX55 C 5V6, ZPD 5.6 Ses,ITT		
D....3	50.04.0125	1N 4448		Fc,ITT,Ph,Ses	
D....4	50.04.0125	1N 4448		Fc,ITT,Ph,Ses	
D....5	50.04.0122	1N 4001		Mot	
D....6	50.04.0517	BYV32-200		Mot,Ph	
IC....1	50.05.0279	SG 3524BN		SG	
IC....2	50.10.0104	LM 317T	LM 317 SP	Tho,Mot,NS,TI	
J....1	00.00.0000		see note 1		
L....1	1.022.252.00	0.32 mH	Filter Coil	St	
L....2	1.022.224.00		Power Supply Transformer	St	
L....3	1.022.217.00	46 uH	HF-Coil, 5A	St	
L....4	1.022.202.00	16.9 mH	Filter Coil	St	
Q....1	50.03.0517	2 SC 3012	NPN	NEC	
Q....2	50.03.0551	BC 639	NPN	Mot,Ph	
Q....3	50.99.0106	T 2800	400V, 8A, Triac	Ph	

Ad ..POS... ..REF.No... DESCRIPTION.....MANUFACTURER

R....1	57.92.1331	PTC	see note 2	Ph
R....2	57.11.3102	1 kOhm	1%	
R....3	57.11.3272	2.7 kOhm	1%	
R....4	57.11.3102	1 kOhm	1%	
R....5	57.11.3181	180 Ohm	1%	
R....6	57.11.3390	39 Ohm	1%	
R....7	57.11.3103	10 kOhm	1%	
R....8	57.11.3512	5.1 kOhm	1%	
R....9	57.11.3472	4.7 kOhm	1%	
R....10	57.11.3432	4.3 kOhm	1%	
R....11	57.11.3472	4.7 kOhm	1%	
R....12	57.11.3472	4.7 kOhm	1%	
R....13	57.11.3472	4.7 kOhm	1%	
R....14	57.11.3223	22 kOhm	1%	
R....15	57.11.3105	1 MOhm	1%	
TP....1	54.02.0320	Test Point		
TP....2	54.02.0320	Test Point		
TP....3	54.02.0320	Test Point		
TP....4	54.02.0320	Test Point		
TP....5	54.02.0320	Test Point		

EL=Electrolytic, SAL=Solid Aluminium, PETP=Polyester

MANUFACTURERS: Fc=Fairchild, ITT=Intermetall, Mot=Motorola,
 NEC=Nippon Electric Corp., NS=National Semiconductors,
 Ph=Philips, Ses=Sescosem, SG=Silicon General, St=Studer
 Tho=Thomson, TI=Texas Instruments

Note 1 - Connector: 10 pieces Studer Nr.53.03.0218

Note 2 - PTC Thermistor: R @ 25 degree Celsius = 4.7 Ohm
 I @ 55 degree Celsius = 330 mA

Philips Nr.2322 663 13311

1.328.213.81 STABILIZER BOARD

BD91/10/2400